



# The bidi Package

Source documentation for [version 25.09.10](#)

*to my Master, **Ferdowsi The Great***

If you want to report any bugs or typos and corrections in the documentation, or ask for any new features, or suggest any improvements, or ask any questions about the package, then please use the issue tracker:

<https://github.com/xepersian/bidi/issues>

In doing so, please always explain your issue well enough, and always include a minimal working example showing the issue.

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# The *bidi* Package

## Bidirectional typesetting with plain $\text{\TeX}$ and $\text{\LaTeX}$ formats in Xe $\text{\TeX}$ and Lua $\text{\TeX}$ engines

Source documentation for [version 25.09.10](#)

Vafa Khalighi\*

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\*Thanks to the `bidi-tex` GitHub organization consisted of David Carlisle and other members of the  $\text{\LaTeX}$  team for maintaining the package in the period 2018–2020.

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## 1 File amsart-xetex-bidi.def

```

1 \ProvidesFile{amsart-xetex-bidi.def}[2017/08/09 v1.1 bidi adaptations for amsart class for X
2 \def\tocline#1#2#3#4#5#6#7{\relax
3   \ifnum #1>\c@tocdepth % then omit
4   \else
5     \par \addpenalty\@secpenalty\addvspace{#2}%
6     \begingroup \hyphenpenalty\@M
7     \@ifempty{#4}{%
8       \@tempdima\csname r@tocindent\number#1\endcsname\relax
9     }{%
10      \@tempdima#4\relax
11    }%
12    \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
13    \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
14    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16    \nobreak
17  \endgroup
18 \fi}
19 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
20 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
21 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
22 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
23 \def\part{\@startsection{part}{0}%
24   \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
25   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
26 \def\right@footnoterule{%
27   \kern-.4\p@
28   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
29   \kern11\p@\kern-\footnotesep}
30 \def\left@footnoterule{\kern-.4\p@
31   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
32
33
34 \long\def\@footnotetext#1{%
35   \insert\footins{%
36     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
37     \reset@font%
38     \bidi@footnotetext@font% \normalfont\footnotesize
39     \interlinepenalty\interfootnotelinepenalty
40     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
41     \floatingpenalty\@MM \hsize\columnwidth
42     \@parboxrestore \parindent\normalparindent \sloppy
43     \protected@edef\@currentlabel{%
44       \csname p@footnote\endcsname\@thefnmark}%
45     \@makefnmark%
46     \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
47
48 \long\def\@RTLfootnotetext#1{%
49   \insert\footins{%
50     \@RTLtrue%
51     \reset@font%
52     \bidi@RTLfootnotetext@font% \normalfont\footnotesize

```



```

53 \interlinepenalty\interfootnotelinepenalty
54 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
55 \floatingpenalty\@MM \hsize\columnwidth
56 \@parboxrestore \parindent\normalparindent \sloppy
57 \protected@edef\@currentlabel{%
58 \csname p@footnote\endcsname\@thefnmark}%
59 \@makefnmark%
60 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}
61
62
63
64 \long\def\@LTRfootnotetext#1{%
65 \insert\footins{%
66 \@RTLfalse%
67 \reset@font%
68 \bidi@@LTRfootnotetext@font% \normalfont\footnotesize
69 \interlinepenalty\interfootnotelinepenalty
70 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
71 \floatingpenalty\@MM \hsize\columnwidth
72 \@parboxrestore \parindent\normalparindent \sloppy
73 \protected@edef\@currentlabel{%
74 \csname p@footnote\endcsname\@thefnmark}%
75 \@makefnmark%
76 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
77
78
79 \footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
80 \footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
81 \footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
82
83 \renewenvironment{thebibliography}[1]{%
84 \@bibtitlestyle
85 \normalfont\bibliofont\labelsep .5em\relax
86 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
87 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
88 \bidi@@thebibliography@font@hook%
89 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
90 \leftmargin\labelwidth \advance\leftmargin\labelsep
91 \usecounter{enumiv}}%
92 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
93 \sfcode`\.=\@m
94 }{%
95 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
96 \endlist
97 }
98 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
99 \columnseprule{z@ \columnsep 35\p@
100 \@indextitlestyle
101 \thispagestyle{plain}%
102 \let\item\@idxitem
103 \parindent\z@ \parskip\z@\@plus.3\p@\relax
104 \if@RTL\raggedleft\else\raggedright\fi
105 \hyphenpenalty\@M
106 \footnotesize}

```



```

107 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
108 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
109 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
110 \def\maketitle{\par
111   \@topnum\z@ % this prevents figures from falling at the top of page 1
112   \@setcopyright
113   \thispagestyle{firstpage}% this sets first page specifications
114   \uppercasenonmath\shorttitle
115   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
116   \else \andify\shortauthors
117   \fi
118   \@maketitle@hook
119   \begingroup
120   \@maketitle
121   \toks@{\exp{\shortauthors}\@temptokena\exp{\shorttitle}}%
122   \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
123   \edef\@tempa{%
124     \@nx\markboth{\the\toks4
125       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
126   \@tempa
127   \endgroup
128   \c@footnote\z@
129   \cleartopmattertags
130 }

```

## 2 File adjmulticol-xetex-bidi.def

```

131 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol p
132 \def\adjmulticols#1#2#3{\col@number#1\relax
133   \def\@tempa{#2}%
134   \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
135   \def\@tempa{#3}%
136   \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
137   \ifnum\col@number<\@ne
138     \PackageWarning{adjmulticol}%
139       {Using '\number\col@number'
140        columns doesn't seem a good idea.^^J
141        I therefore use one columns instead}%
142     \col@number\@ne\fi
143   \ifnum\col@number>10
144     \PackageError{adjmulticol}%
145       {Too many columns}%
146       {Current implementation doesn't
147        support more than 10 columns.%
148       \MessageBreak
149        I therefore use 10 columns instead}%
150     \col@number10 \fi
151   \ifx\@footnotetext\mult@footnotetext\else
152     \let\orig@footnotetext\@footnotetext
153     \let\@footnotetext\mult@footnotetext
154   \fi
155   \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
156     \let\orig@LTRfootnotetext\@LTRfootnotetext
157     \let\@LTRfootnotetext\mult@LTRfootnotetext

```





```

158     \fi
159     \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
160         \let\orig@RTLfootnotetext\@RTLfootnotetext
161         \let\@RTLfootnotetext\mult@RTLfootnotetext
162     \fi
163     \@ifnextchar[\adjmult@cols{\adjmult@cols[]}]{}
164 \let\adjmc@page@sofar@orig=\page@sofar

```

### 3 File algorithm2e-xetex-bidi.def

```

165 \ProvidesFile{algorithm2e-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for algorithm2e p
166 \expandafter\ifx\cscname algocf@within\endcsname\relax% if \algocf@within doesn't exist
167 \else%
168     \else
169 \fi
170 \renewcommand\thealgocf{\cscname the\algocf@within\endcsname\@SepMark\@arabic\c@algocf}%
171 \fi
172 \ApplyPatchIfPackageLoadedF{color}{%
173     \bidi@patchcmd{\@algocf@start}{\bgroup}{%
174         \bgroup
175         \if@RTL
176             \beginR
177         \else
178             \beginL
179         \fi
180     }{}{}
181     \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{%
182         \if@RTL
183             \endR
184         \else
185             \endL
186         \fi
187     \egroup
188     \end{lrbox}%
189 }{}{}
190 \bidi@patchcmd{\algocf@makecaption}{\hbox}{%
191     \if@RTL
192         \hboxR
193     \else
194         \hboxL
195     \fi
196 }{}{}
197 }{}{}
198 }
199
200 \@ifpackagewith{algorithm2e}{algonl}{%
201 \renewcommand{\theAlgoLine}{\expandafter\cscname the\algocf@float\endcsname\@SepMark\arabic{A
202 }{}
203 }{}
204
205 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
206
207 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
208
209 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}

```

### 4 File amsbook-xetex-bidi.def



```

206 \ProvidesFile{amsbook-xetex-bidi.def}[2017/08/09 v1.2 bidi adaptations for amsbook class for
207 \def\tocline#1#2#3#4#5#6#7{\relax
208   \ifnum #1>\c@tocdepth % then omit
209   \else
210     \par \addpenalty\@secpenalty\addvspace{#2}%
211     \begingroup \hyphenpenalty\@M
212     \@ifempty{#4}{%
213       \@tempdima\c@tocindent\number#1\endcsname\relax
214     }{%
215       \@tempdima#4\relax
216     }%
217     \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\leftskip\fi
218     \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
219     #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
220     \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
221     \nobreak
222   \endgroup
223 \fi}
224 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
225 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
226 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
227 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
228 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
229   \columnseprule\z@ \columnsep 35\p@
230   \@indextitlestyle
231   \thispagestyle{plain}%
232   \let\item\@idxitem
233   \parindent\z@ \parskip\z@\@plus.3\p@\relax
234   \if@RTL\raggedleft\else\raggedright\fi
235   \hyphenpenalty\@M
236   \footnotesize}
237 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
238 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
239 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
240 \def\right@footnoterule{%
241   \kern-.4\p@
242   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
243   \kern11\p@\kern-\footnotesep}
244 \def\left@footnoterule{\kern-.4\p@
245   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
246
247 \long\def\@footnotetext#1{%
248   \insert\footins{%
249     \if@RTL\footnote\@RTLtrue\else\@RTLfalse\fi%
250     \reset@font%
251     \bidi@footnotetext@font% \normalfont\footnotesize
252     \interlinepenalty\interfootnotelinepenalty
253     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
254     \floatingpenalty\@MM \hsize\columnwidth
255     \@parboxrestore \parindent\normalparindent \sloppy
256     \protected@edef\@currentlabel{%
257       \csname p@footnote\endcsname\@thefnmark}%
258     \@makefntext{%
259       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}

```



```

260
261 \long\def\@RTLfootnotetext#1{%
262   \insert\footins{%
263     \@RTLtrue%
264     \reset@font%
265     \bidi@RTLfootnotetext@font% \normalfont\footnotesize
266     \interlinepenalty\interfootnotelinepenalty
267     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
268     \floatingpenalty\@MM \hsize\columnwidth
269     \@parboxrestore \parindent\normalparindent \sloppy
270     \protected@edef\@currentlabel{%
271       \csname p@footnote\endcsname\@thefnmark}%
272     \@makefnfntext{%
273       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
274
275
276 \long\def\@LTRfootnotetext#1{%
277   \insert\footins{%
278     \@RTLfalse%
279     \reset@font%
280     \bidi@LTRfootnotetext@font% \normalfont\footnotesize
281     \interlinepenalty\interfootnotelinepenalty
282     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
283     \floatingpenalty\@MM \hsize\columnwidth
284     \@parboxrestore \parindent\normalparindent \sloppy
285     \protected@edef\@currentlabel{%
286       \csname p@footnote\endcsname\@thefnmark}%
287     \@makefnfntext{%
288       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
289
290
291
292 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
293 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
294 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
295
296 \renewenvironment{thebibliography}[1]{%
297   \@bibtitlestyle
298   \normalfont\bibliofont\labelsep .5em\relax
299   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
300   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
301   \bidi@thebibliography@font@hook%
302   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
303     \leftmargin\labelwidth \advance\leftmargin\labelsep
304     \usecounter{enumiv}}%
305   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
306   \sfcode`\.=\@m
307 }{%
308   \def\@noitemerr{\@latex@warning{Empty 'thebibliography' environment}}%
309   \endlist
310 }
311 \def\@makechapterhead#1{\global\topskip 7.5pc\relax
312   \begingroup
313   \fontsize{\@xivpt}{18}\bfseries\centering

```



```

314 \ifnum\c@secnumdepth>\m@ne
315 \leavevmode \hskip-\if@RTL\rightskip\else\leftskip\fi
316 \rlap{\vbox to\z@{\vss
317 \centerline{\normalsize\mdseries
318 \uppercase\@xp{\chaptername}\enspace\thechapter}
319 \vskip 3pc}}\hskip\if@RTL\rightskip\else\leftskip\fi\fi
320 #1\par \endgroup
321 \skip@34\p@ \advance\skip@-\normalbaselineskip
322 \vskip\skip@ }
323 \def\maketitle{\par
324 \@topnum\z@ % this prevents figures from falling at the top of page 1
325 \begingroup
326 \@maketitle
327 \endgroup
328 \c@footnote\z@
329 \def\do##1{\let##1\relax}%
330 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
331 \do\author \do\@xauthor \do\address \do\@xaddress
332 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
333 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
334 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
335 }

```

## 5 File amsmath-xetex-bidi.def

```

336 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package f
337 \let\veqno=\eqno
338 \iftagsleft@ \let\veqno=\leqno \fi
339 \renewcommand{\numberwithin}[3][\arabic]{%
340 \ifundefined{c@#2}{\nocounterr{#2}}{%
341 \ifundefined{c@#3}{\nocnterr{#3}}{%
342 \addtoreset{#2}{#3}%
343 \exp\xdef\csname the#2\endcsname{%
344 \exp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
345 }
346 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@ \ignorespaces#1\unskip\@italicco
347
348 \bidi@patchcmd\math@cr@@@align\place@tag{%
349 \place@tag
350 \else
351 \place@tag
352 }{}{}
353

```

## 6 File amstext-xetex-bidi.def

```

354 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package f
355 \def\textdef@#1#2#3{\hbox{%
356 \everymath{#1}%
357 \let\fontsize#2\selectfont
358 \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}}

```

## 7 File amsthm-xetex-bidi.def



```

359 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for
360 \def\@thmcountersep{\@SepMark}

```

## 8 File array-xetex-bidi.def

```

361 \ProvidesFile{array-xetex-bidi.def}[2025/09/04 v0.6 bidi adaptations for array package for X
362 \def\@testpach{\@chclass
363 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
364 \ifnum \@lastchclass=7 5 \else
365 \ifnum \@lastchclass=8 \tw@ \else
366 \ifnum \@lastchclass=9 \thr@@
367 \else \z@
368 \ifnum \@lastchclass = 10 \else
369 \edef\@nextchar{\expandafter\string\@nextchar}%
370 \@chnum
371 \if \@nextchar c\z@ \else
372 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
373 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
374 \z@ \@chclass
375 \if \@nextchar |\@ne \else
376 \if \@nextchar !6 \else
377 \if \@nextchar @7 \else
378 \if \@nextchar <8 \else
379 \if \@nextchar >9 \else
380 10
381 \@chnum
382 \if \@nextchar m\thr@@ \else
383 \if \@nextchar p4 \else
384 \if \@nextchar b5 \else
385 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
386 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
387 \def\@tabular{%
388 \leavevmode
389 \UseTaggingSocket{tbl/hmode/begin}%
390 \hbox \bgroup\if@RTLtab\beginR \fi
391 \MathCollectFalse$\MathCollectTrue
392 \col@sep\tabcolsep \let\d@llarbegin\begin\group
393 \let\d@llarend\end\group
394 \@kernel@tabular@init
395 \@tabarray}
396 \def\endtabular{\endarray\m@th $\if@RTLtab\endR\fi\egroup
397 \UseTaggingSocket{tbl/hmode/end}%
398 }
399 \expandafter\let\csname endtabular*\endcsname=\endtabular
400 \ExplSyntaxOn
401 \def\@array[#1]#2{
402 \@tempdima \ht \strutbox
403 \advance \@tempdima by\extrarowheight
404 \setbox \@arstrutbox \hbox{\vrule
405 \@height \arraystretch \@tempdima
406 \@depth \arraystretch \dp \strutbox
407 \@width \z@}%
408 \tbl_save_outer_table_cols:
409 \begin\group

```



```

410 \mkpream{#2}%
411 \tbl_count_table_cols:
412 \xdef\@preamble{
413   \noexpand \ar@ialign
414   \@halignto
415   \bgroup \@arstrut
416   \UseTaggingSocket{tbl/row/begin}
417   \tbl_init_cell_data_for_row:
418   \@preamble
419   \tabskip \z@ \cr}
420 \endgroup
421 \@arrayleft
422 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi \fi
423 \bgroup
424 \let \@sharp ##\let \protect \relax
425 \lineskip \z@
426 \baselineskip \z@
427 \mathsurround \z@
428 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty
429 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
430 \UseTaggingSocket{tbl/init}
431 \@preamble
432 }
433 \ExplSyntaxOff
434 \let\@array\@array
435 \ExplSyntaxOn
436 \def\endarray {
437   \tbl_crcr:n{endarray}
438   \tag_socket_use_expandable:n { math/luamml/array/save }
439   \egroup
440   \tag_socket_use:n { tbl/finalize }
441   \tbl_restore_outer_cell_data:
442   \if@RTLtab\egroup\endR\egroup\fi
443   \egroup
444   \tag_socket_use:n { math/luamml/array/finalize }
445   \@arrayright \gdef\@preamble{}%
446 }
447 \ExplSyntaxOff
448 \def\array{\col@sep\arraycolsep
449   \def\d@llarbegin{$\tag_socket_use:n { math/luamml/array/initcol }}
450   \def\d@llarend
451   {
452     \tag_socket_use:nn { math/luamml/save/nn }{{}{mtd}}
453     $
454     \tag_socket_use:nn { math/luamml/array/finalizecol }{\the\@chnum}
455   }
456   \def\@halignto{}%
457   \@RTLtabfalse
458   \@tabarray}

```

## 9 File article-xetex-bidi.def

```

459 \ProvidesFile{article-xetex-bidi.def}[2025/09/08 v1.1 bidi adaptations for standard article
460 \IfClassLoadedT{svmult}{\endinput}

```



```

461 \if@titlepage
462   \renewcommand\maketitle{\begin{titlepage}%
463     \let\footnotesize\small
464     \let\right@footnoterule\relax
465     \let\left@footnoterule\relax
466     \let\textwidth@footnoterule\relax
467     \let \footnote \thanks
468     \let \LTRfootnote \LTRthanks
469     \let \RTLfootnote \RTLthanks
470     \null\vfil
471     \vskip 60\p@
472     \begin{center}%
473       {\LARGE \@title \par}%
474       \vskip 3em%
475       {\large
476         \lineskip .75em%
477         \begin{tabular}[t]{c}%
478           \@author
479         \end{tabular}\par}%
480       \vskip 1.5em%
481       {\large \@date \par}%           % Set date in \large size.
482     \end{center}\par
483     \@thanks
484     \vfil\null
485   \end{titlepage}%
486   \setcounter{footnote}{0}%
487   \global\let\thanks\relax
488   \global\let\LTRthanks\relax
489   \global\let\RTLthanks\relax
490   \global\let\maketitle\relax
491   \global\let\@thanks\@empty
492   \global\let\@author\@empty
493   \global\let\@date\@empty
494   \global\let\@title\@empty
495   \global\let\title\relax
496   \global\let\author\relax
497   \global\let\date\relax
498   \global\let\and\relax
499 }
500 \else
501 \renewcommand\maketitle{\par
502   \begingroup
503     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
504     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
505     \long\def\@makefntext##1{\parindent 1em\noindent
506       \hb@xt@1.8em{%
507         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
508     \if@twocolumn
509       \ifnum \col@number=\@ne
510         \@maketitle
511       \else
512         \twocolumn[\@maketitle]%
513       \fi
514     \else

```



```

515     \newpage
516     \global\@topnum\z@    % Prevents figures from going at top of page.
517     \@maketitle
518     \fi
519     \thispagestyle{plain}\@thanks
520 \endgroup
521 \setcounter{footnote}{0}%
522 \global\let\thanks\relax
523 \global\let\LTRthanks\relax
524 \global\let\RTLthanks\relax
525 \global\let\maketitle\relax
526 \global\let\@maketitle\relax
527 \global\let\@thanks\@empty
528 \global\let\@author\@empty
529 \global\let\@date\@empty
530 \global\let\@title\@empty
531 \global\let\title\relax
532 \global\let\author\relax
533 \global\let\date\relax
534 \global\let\and\relax
535 }
536 \def\@maketitle{%
537   \newpage
538   \null
539   \vskip 2em%
540   \begin{center}%
541     \let \footnote \thanks
542     \let \LTRfootnote \LTRthanks
543     \let \RTLfootnote \RTLthanks
544     {\LARGE \@title \par}%
545     \vskip 1.5em%
546     {\large
547       \lineskip .5em%
548       \begin{tabular}[t]{c}%
549         \@author
550       \end{tabular}\par}%
551     \vskip 1em%
552     {\large \@date}%
553   \end{center}%
554   \par
555   \vskip 1.5em}
556 \fi
557 \renewcommand*\l@part[2]{%
558   \ifnum \c@tocdepth >-2\relax
559     \addpenalty\@secpenalty
560     \addvspace{2.25em \@plus\p@}%
561     \setlength\@tempdima{3em}%
562     \begin{group
563       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
564       \parfillskip -\@pnumwidth
565       {\leavevmode
566         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
567       \nobreak
568       \if@compatibility

```





```

569         \global\@nbreaktrue
570         \everypar{\global\@nbreakfalse\everypar{}}}%
571     \fi
572 \endgroup
573 \fi}
574 \renewcommand*\l@section[2]{%
575     \ifnum \c@tocdepth >\z@
576         \addpenalty\@secpenalty
577         \addvspace{1.0em \@plus\p@}%
578         \setlength\@tempdima{1.5em}%
579         \begingroup
580             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
581             \parfillskip -\@pnumwidth
582             \leavevmode \bfseries
583             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
584             \hskip -\if@RTL\rightskip\else\leftskip\fi
585             #1\nobreak\hfil \nobreak\hbext@\@pnumwidth{\hss #2}\par
586         \endgroup
587     \fi}
588 \renewcommand\left@footnoterule{%
589     \kern-3\p@
590     \hrule\@width.4\columnwidth
591     \kern2.6\p@}
592 \renewcommand\right@footnoterule{%
593     \kern-3\p@
594     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
595     \kern2.6\p@}
596 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
597 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
598 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
599 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
600 \ApplyPatchIfPackageLoaded{nameref}{%
601     \bidi@patchcmd\NR@part\raggedright{%
602         \if@RTL\raggedleft\else\raggedright\fi
603     }{\bidi@warningnoline{Oops! patching `string\NR@part' failed}}}%
604     \bidi@patchcmd\NR@spart\raggedright{%
605         \if@RTL\raggedleft\else\raggedright\fi
606     }{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}}%
607 }{%
608     \bidi@patchcmd\@part\raggedright{%
609         \if@RTL\raggedleft\else\raggedright\fi
610     }{\bidi@warningnoline{Oops! patching `string\@part' failed}}}%
611     \bidi@patchcmd\@spart\raggedright{%
612         \if@RTL\raggedleft\else\raggedright\fi
613     }{\bidi@warningnoline{Oops! patching `string\@spart' failed}}}%
614 }
615 \renewenvironment{thebibliography}[1]
616     {\section*{\refname}%
617     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
618     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
619     \bidi@@thebibliography@font@hook%
620     \list{\@biblabel{\@arabic\c@enumiv}}%
621         {\settowidth\labelwidth{\@biblabel{#1}}%
622         \leftmargin\labelwidth

```



```

623         \advance\leftmargin\labelsep
624         \@openbib@code
625         \usecounter{enumiv}%
626         \let\p@enumiv\@empty
627         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
628     \sloppy
629     \clubpenalty4000
630     \@clubpenalty \clubpenalty
631     \widowpenalty4000%
632     \sfcode`. \. \@m}
633     {\def\@noitemerr
634      {\@latex@warning{Empty `thebibliography' environment}}}%
635     \endlist}
636 \renewenvironment{theindex}
637     {\if@twocolumn
638      \@restonecolfalse
639      \else
640      \@restonecoltrue
641      \fi
642      \columnseprule \z@
643      \columnsep 35\p@
644      \twocolumn[\section*{\indexname}}%
645      \@mkboth{\MakeUppercase\indexname}%
646              {\MakeUppercase\indexname}}%
647      \thispagestyle{plain}\parindent\z@
648      \parskip\z@ \@plus .3\p@\relax
649      \let\item\@idxitem}
650      {\if@restonecol\onecolumn\else\clearpage\fi}

```

## 10 File artikel1-xetex-bidi.def

```

651 \ProvidesFile{artikel1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel1 class f
652 \renewenvironment{theindex}{%
653   \if@twocolumn
654     \@restonecolfalse
655   \else
656     \@restonecoltrue
657   \fi
658   \columnseprule \z@
659   \columnsep 35\p@
660   \twocolumn[\section*{\indexname}}%
661   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
662   \thispagestyle{plain}\parindent\z@
663   \parskip\z@ \@plus .3\p@\relax
664   \let\item\@idxitem
665   }{%
666   \if@restonecol\onecolumn\else\clearpage\fi}
667 \renewcommand*\head@style{%
668   \interlinepenalty \@M
669   \hyphenpenalty=\@M \exhyphenpenalty=\@M
670   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
671 \if@titlepage
672   \renewenvironment{abstract}{%
673     \titlepage

```



```

674     \null\vfil
675     \section*{\SectFont\abstractname}
676     \noindent\ignorespaces}
677     {\par\vfil\null\endtitlepage}
678 \else
679 \renewenvironment{abstract}{%
680     \if@twocolumn
681     \section*{\abstractname}%
682     \else
683     \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
684     \section*{\small\SectFont\abstractname}%
685     \noindent\ignorespaces
686     \fi}
687     {\if@twocolumn\else\par\egroup\fi}
688 \fi
689 \renewcommand*\@regtocline[3]{%
690     \ifnum #1>\c@tocdepth
691     \else
692     \vskip\z@\@plus.2\p@
693     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
694     \if@RTL\rightskip\else\leftskip\fi\unitindent
695     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
696     \parfillskip\z@
697     \@tempdima\unitindent
698     \parindent\z@
699     \leavevmode
700     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
701     \hskip 1em \nobreak{\slshape #3}\par
702     }%
703     \fi}
704 \if@oldtoc
705 \renewcommand*\l@part[2]{%
706     \ifnum \c@tocdepth >-2\relax
707     \addpenalty\@secpenalty
708     \addvspace{2.25em \@plus\p@}%
709     \begingroup
710     \setlength\@tempdima{3em}%
711     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
712     \parfillskip -\@pnumwidth
713     {\leavevmode
714     \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
715     \nobreak
716     \if@compatibility
717     \global\@nobreaktrue
718     \everypar{\global\@nobreakfalse\everypar{}}%
719     \fi
720     \endgroup
721     \fi}
722 \else
723 \renewcommand*\l@part{%
724     \ifnum \c@tocdepth >-2\relax
725     \addpenalty\@secpenalty
726     \addvspace{2.25em \@plus \p@}%
727     \@regtocline{0}%

```



```

728 \fi}
729 \fi
730 \if@oldtoc
731 \renewcommand*\l@section[2]{%
732 \addpenalty\@secpenalty
733 \addvspace{1.0em \@plus\p@}%
734 \setlength\@tempdima{1.5em}%
735 \begingroup
736 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
737 \parfillskip -\@pnumwidth
738 \leavevmode \bfseries
739 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
740 \hskip -\if@RTL\rightskip\else\leftskip\fi
741 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
742 \endgroup}
743 \else
744 \renewcommand*\l@section{\@regtocline{1}}
745 \fi
746 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
747 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
748 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
749 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
750 \renewenvironment{thebibliography}[1]
751 {\section*\refname}%
752 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
753 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
754 \bidi@thebibliography@font@hook%
755 \list{\@biblabel{\@arabic\c@enumiv}}%
756 {\settowidth\labelwidth{\@biblabel{#1}}%
757 \leftmargin\labelwidth
758 \advance\leftmargin\labelsep
759 \@openbib@code
760 \usecounter{enumiv}%
761 \let\p@enumiv\@empty
762 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
763 \sloppy\clubpenalty4000\widowpenalty4000%
764 \sfcode\.\@m}
765 {\def\@noitemerr
766 {\@latex@warning{Empty 'thebibliography' environment}}}%
767 \endlist}
768 \renewcommand*\left@footnoterule{%
769 \kern-3\p@
770 \kern.5\baselineskip
771 \hrule\@width\unitindent
772 \kern.4\baselineskip
773 }
774 \renewcommand*\right@footnoterule{%
775 \kern-3\p@
776 \kern.5\baselineskip
777 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
778 \kern.4\baselineskip}
779 \if@titlepage
780 \renewcommand*\TitleFont{\rmfamily}
781 \renewcommand*\maketitle{%

```



```

782 \begin{titlepage}%
783   \let\footnotesize\small
784   \let\right@footnoterule\relax
785   \let\left@footnoterule\relax
786   \let\textwidth@footnoterule\relax
787   \let \footnote \thanks
788   \long\def\@makefnmark##1{\parindent\z@
789     \def\labelitemi{\textendash}\@revlabeltrue
790     \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
791   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
792   \if@compatibility\setcounter{page}{0}\fi
793   \null\vfil
794   \vskip 60\p@
795   \begin{center}%
796     \TitleFont
797     {\LARGE \def\\{\penalty -\@M}
798       \if@allcaps
799         \expandafter\uc@nothanks\@title\thanks\relax
800       \else
801         \@title
802       \fi\par}%
803   \vskip 3em%
804   {\large
805     \lineskip .75em \parindent\z@
806     \begin{tabular}[t]{c}%
807       \if@allcaps
808         \expandafter\uc@authornothanks\@author\and\relax
809       \else
810         \@author
811       \fi
812     \end{tabular}\par}%
813   \vskip 1.5em%
814   {\large
815     \if@allcaps
816       \uppercase\expandafter{\@date}%
817     \else
818       \@date
819     \fi\par}%
820   \end{center}\par
821   \@thanks
822   \vfil\null
823 \end{titlepage}%
824 \setcounter{footnote}{0}%
825 \global\let\thanks\relax
826 \global\let\maketitle\relax
827 \global\let\@thanks\@empty
828 \global\let\@author\@empty
829 \global\let\@title\@empty
830 \global\let\@date\@empty
831 \global\let\title\relax
832 \global\let\author\relax
833 \global\let\date\relax
834 \global\let\and\relax
835 }

```



```

836 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
837 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
838     \futurelet\@tempa\uc@ax}
839 \def\uc@ax{%
840     \ifx\@tempa\relax
841     \else
842         \\\andname \\\expandafter\uc@authornothanks
843     \fi}
844 \def\uc@tx{\ifx\@tempa\relax
845     \else \expandafter\uc@ty \fi}
846 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
847 \else
848 \renewcommand*\maketitle{\par
849     \begingroup
850     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
851     \def\@makefnmark{\rlap{%
852         \@textsuperscript{\normalfont\@thefnmark}}}%
853     \long\def\@makefntext{\@xmakefntext{%
854         \@textsuperscript{\normalfont\@thefnmark}}}%
855     \if@twocolumn
856         \ifnum \col@number=\@one
857             \@maketitle
858         \else
859             \twocolumn[\@maketitle]%
860         \fi
861     \else
862         \newpage
863         \global\@topnum\z@
864         \@maketitle
865     \fi
866     \thispagestyle{plain}\@thanks
867 \endgroup
868 \setcounter{footnote}{0}%
869 \global\let\thanks\relax
870 \global\let\maketitle\relax
871 \global\let\@maketitle\relax
872 \global\let\@thanks\@empty
873 \global\let\@author\@empty
874 \global\let\@title\@empty
875 \global\let\@date\@empty
876 \global\let\title\relax
877 \global\let\author\relax
878 \global\let\date\relax
879 \global\let\and\relax
880 }
881 \def\@maketitle{%
882     \newpage
883     \null
884     \vskip 2em%
885     \begin{center}%
886         \let \footnote \thanks
887         {\LARGE \TitleFont \@title \par}%
888         \vskip 1.5em%
889         {\large \TitleFont

```



```

890     \lineskip .5em%
891     \begin{tabular}[t]{c}%
892         \@author
893     \end{tabular}\par}%
894     \vskip 1em%
895     {\large \TitleFont \@date}%
896 \end{center}%
897 \par
898 \vskip 1.5em}
899 \fi

```

## 11 File artikel2-xetex-bidi.def

```

900 \ProvidesFile{artikel2-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel2 class f
901 \renewenvironment{theindex}{%
902     \if@twocolumn
903         \@restonecolfalse
904     \else
905         \@restonecoltrue
906     \fi
907     \columnseprule \z@
908     \columnsep 35\p@
909     \twocolumn[{\section*{\indexname}}]%
910     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
911     \thispagestyle{plain}\parindent\z@
912     \parskip\z@ \@plus .3\p@\relax
913     \let\item\@idxitem
914     }{%
915     \if@restonecol\onecolumn\else\clearpage\fi}
916 \renewcommand*{\@regtocline}[3]{%
917     \ifnum #1>\c@tocdepth
918     \else
919         \vskip\z@ \@plus .2\p@
920         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
921         \if@RTL\rightrightskip\else\leftskip\fi\unitindent
922         \if@RTL\leftskip\else\rightrightskip\fi\unitindent\@plus 1fil
923         \parfillskip\z@
924         \@tempdima\unitindent
925         \advance\@tempdima by \othermargin
926         \parindent\z@
927         \leavevmode
928         \hbox{\hspace -\if@RTL\rightrightskip\else\leftskip\fi\relax#2\nobreak
929         \hspace 1em \nobreak{\slshape #3}\par
930         }%
931     \fi}
932 \if@oldtoc
933 \renewcommand*{\l@section}[2]{%
934     \addpenalty\@secpenalty
935     \addvspace{1.0em \@plus\p@}%
936     \setlength\@tempdima{1.5em}%
937     \begingroup
938     \parindent \z@ \if@RTL\leftskip\else\rightrightskip\fi \@pnumwidth
939     \parfillskip -\@pnumwidth
940     \leavevmode \bfseries

```



```

941 \advance\if@RTL\rightright\else\leftskip\fi\@tempdima
942 \hskip -\if@RTL\rightright\else\leftskip\fi
943 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
944 \endgroup}
945 \else
946 \renewcommand*\l@section{\@regtocline{1}}
947 \fi
948 \if@oldtoc
949 \renewcommand*\l@part[2]{%
950 \ifnum \c@tocdepth >-2\relax
951 \addpenalty\@secpenalty
952 \addvspace{2.25em \@plus\p@}%
953 \begingroup
954 \setlength\@tempdima{3em}%
955 \parindent \z@ \if@RTL\leftskip\else\rightright\fi \@pnumwidth
956 \parfillskip -\@pnumwidth
957 {\leavevmode
958 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
959 \nobreak
960 \if@compatibility
961 \global\@nobreaktrue
962 \everypar{\global\@nobreakfalse\everypar{}}%
963 \fi
964 \endgroup
965 \fi}
966 \else
967 \renewcommand*\l@part{%
968 \ifnum \c@tocdepth >-2\relax
969 \addpenalty\@secpenalty
970 \addvspace{2.25em \@plus \p@}%
971 \@regtocline{0}%
972 \fi}
973 \fi
974 \renewcommand*\head@style{%
975 \interlinepenalty \@M
976 \hyphenpenalty=\@M \exhyphenpenalty=\@M
977 \if@RTL\leftskip\else\rightright\fi=0cm plus .7\hsize\relax}
978 \if@titlepage
979 \renewenvironment{abstract}{%
980 \titlepage
981 \null\vfil
982 \section*{\SectFont\abstractname}%
983 \noindent\ignorespaces}
984 {\par\vfil\null\endtitlepage}
985 \else
986 \renewenvironment{abstract}{%
987 \if@twocolumn
988 \section*{\abstractname}%
989 \else
990 \section*{\hskip\unitindent\small\SectFont\abstractname}%
991 \list{}{\setlength\listparindent{\unitindent}%
992 \setlength\parindent {\z@}%
993 \setlength\leftmargin {\unitindent}%
994 \setlength\rightmargin {\unitindent}%

```





```

995         \setlength\parsep      {\z@}}%
996         \item[]%
997     \fi}
998     {\if@twocolumn\else\par\endlist\fi}
999 \fi
1000 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1001 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1002 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1003 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1004 \renewcommand*\left@footnoterule{%
1005     \kern-3\p@
1006     \hrule\@width 3\unitindent
1007     \kern 2.6\p@
1008 }
1009 \renewcommand*\right@footnoterule{%
1010     \kern-3\p@
1011     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
1012     \kern 2.6\p@}
1013 \renewenvironment{thebibliography}[1]
1014     {\section*{\refname}%
1015         \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1016         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1017         \bidi@thebibliography@font@hook%
1018         \list{\biblabel{\@arabic\c@enumiv}}%
1019             {\settowidth\labelwidth{\@biblabel{#1}}%
1020             \leftmargin\labelwidth
1021             \advance\leftmargin\labelsep
1022             \@openbib@code
1023             \usecounter{enumiv}%
1024             \let\p@enumiv\@empty
1025             \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1026         \sloppy\clubpenalty4000\widowpenalty4000%
1027         \sfcode`. \@m}
1028     {\def\@noitemerr
1029         {\@latex@warning{Empty `thebibliography' environment}}}%
1030     \endlist}
1031 \if@titlepage
1032 \renewcommand*\TitleFont{\rmfamily}
1033 \renewcommand*\maketitle{%
1034     \begin{titlepage}%
1035         \let\footnotesize\small
1036         \let\right@footnoterule\relax
1037         \let\left@footnoterule\relax
1038         \let\textwidth\footnoterule\relax
1039         \let \footnote \thanks
1040         \long\def\@makefntext##1{\parindent\z@
1041             \def\labelitemi{\textendash}\@revlabeltrue
1042             \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1043         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1044         \if@compatibility\setcounter{page}{0}\fi
1045         \null\vfil
1046         \vskip 60\p@
1047         \begin{center}%
1048             \TitleFont

```



```

1049     {\LARGE \def\\{\penalty -\@M}
1050         \if@allcaps
1051             \expandafter\uc@nothanks\@title\thanks\relax
1052         \else
1053             \@title
1054             \fi\par}%
1055     \vskip 3em%
1056     {\large
1057         \lineskip .75em \parindent\z@
1058         \begin{tabular}[t]{c}%
1059             \if@allcaps
1060                 \expandafter\uc@authornothanks\@author\and\relax
1061             \else
1062                 \@author
1063             \fi
1064         \end{tabular}\par}%
1065     \vskip 1.5em%
1066     {\large
1067         \if@allcaps
1068             \uppercase\expandafter{\@date}%
1069         \else
1070             \@date
1071         \fi\par}%
1072     \end{center}\par
1073     \@thanks
1074     \vfil\null
1075 \end{titlepage}%
1076 \setcounter{footnote}{0}%
1077 \global\let\thanks\relax
1078 \global\let\maketitle\relax
1079 \global\let\@thanks\@empty
1080 \global\let\@author\@empty
1081 \global\let\@title\@empty
1082 \global\let\@date\@empty
1083 \global\let\title\relax
1084 \global\let\author\relax
1085 \global\let\date\relax
1086 \global\let\and\relax
1087 }
1088 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1089 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1090     \futurelet\@tempa\uc@ax}
1091 \def\uc@ax{%
1092     \ifx\@tempa\relax
1093     \else
1094         \ \andname \ \ \expandafter\uc@authornothanks
1095     \fi}
1096 \def\uc@tx{\ifx\@tempa\relax
1097     \else \expandafter\uc@ty \fi}
1098 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1099 \else
1100 \renewcommand*\maketitle{\par
1101     \begingroup
1102     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%

```



```

1103 \long\def\@makefntext##1{\parindent\z@
1104 \def\labelitemi{\textendash}%
1105 \leavevmode\hb@xt@.5\unitindent{%
1106 \textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1107 \if@twocolumn
1108 \ifnum \col@number=\@ne
1109 \maketitle
1110 \else
1111 \twocolumn[\maketitle]%
1112 \fi
1113 \else
1114 \newpage
1115 \global\@topnum\z@
1116 \maketitle
1117 \fi
1118 \thispagestyle{plain}\@thanks
1119 \endgroup
1120 \setcounter{footnote}{0}%
1121 \global\let\thanks\relax
1122 \global\let\maketitle\relax
1123 \global\let\@maketitle\relax
1124 \global\let\@thanks\@empty
1125 \global\let\@author\@empty
1126 \global\let\@title\@empty
1127 \global\let\@date\@empty
1128 \global\let\title\relax
1129 \global\let\author\relax
1130 \global\let\date\relax
1131 \global\let\and\relax
1132 }
1133 \def\@maketitle{%
1134 \newpage
1135 \null
1136 \vskip 2em%
1137 \begin{center}%
1138 \let \footnote \thanks
1139 {\LARGE \TitleFont \@title \par}%
1140 \vskip 1.5em%
1141 {\large \TitleFont
1142 \lineskip .5em%
1143 \begin{tabular}[t]{c}%
1144 \author
1145 \end{tabular}\par}%
1146 \vskip 1em%
1147 {\large \TitleFont \@date}%
1148 \end{center}%
1149 \par
1150 \vskip 1.5em}
1151 \fi

```

## 12 File artikel3-xetex-bidi.def

```

1152 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class f
1153 \renewenvironment{theindex}{%

```



```

1154 \if@twocolumn
1155 \@restonecolfalse
1156 \else
1157 \@restonecoltrue
1158 \fi
1159 \columnseprule \z@
1160 \columnsep 35\p@
1161 \twocolumn[\section*{\indexname}]%
1162 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
1163 \thispagestyle{plain}\parindent\z@
1164 \parskip\z@ \@plus .3\p@\relax
1165 \let\item\@idxitem
1166 }{%
1167 \if@restonecol\onecolumn\else\clearpage\fi}
1168 \renewcommand*\head@style{%
1169 \interlinepenalty \@M
1170 \hyphenpenalty=\@M \exhyphenpenalty=\@M
1171 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1172 \renewcommand*\@regtocline[3]{%
1173 \ifnum #1>\c@tocdepth
1174 \else
1175 \vskip\z@ \@plus .2\p@
1176 {\hangindent\z@ \@afterindenttrue \interlinepenalty \@M
1177 \if@RTL\rightskip\else\leftskip\fi\unitindent
1178 \if@RTL\leftskip\else\rightskip\fi\unitindent \@plus 1fil
1179 \parfillskip\z@
1180 \@tempdima\unitindent
1181 \parindent\z@
1182 \leavevmode
1183 \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1184 \hskip 1em \nobreak{\slshape #3}\par
1185 }%
1186 \fi}
1187 \if@oldtoc
1188 \renewcommand*\l@part[2]{%
1189 \ifnum \c@tocdepth >-2\relax
1190 \addpenalty\@secpenalty
1191 \addvspace{2.25em \@plus\p@}%
1192 \begingroup
1193 \setlength\@tempdima{3em}%
1194 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1195 \parfillskip -\@pnumwidth
1196 {\leavevmode
1197 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1198 \nobreak
1199 \if@compatibility
1200 \global\@nobreaktrue
1201 \everypar{\global\@nobreakfalse\everypar{}}%
1202 \fi
1203 \endgroup
1204 \fi}
1205 \else
1206 \renewcommand*\l@part{%
1207 \ifnum \c@tocdepth >-2\relax

```



```

1208 \addpenalty\@secpenalty
1209 \addvspace{2.25em \@plus \p@}%
1210 \@regtocline{0}%
1211 \fi}
1212 \fi
1213
1214 \if@oldtoc
1215 \renewcommand*\l@section[2]{%
1216 \addpenalty\@secpenalty
1217 \addvspace{1.0em \@plus \p@}%
1218 \setlength\@tempdima{1.5em}%
1219 \begingroup
1220 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1221 \parfillskip -\@pnumwidth
1222 \leavevmode \bfseries
1223 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
1224 \hskip -\if@RTL\rightskip\else\leftskip\fi
1225 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1226 \endgroup}
1227 \else
1228 \renewcommand*\l@section{\@regtocline{1}}
1229 \fi
1230 \if@titlepage
1231 \renewenvironment{abstract}{%
1232 \titlepage
1233 \null\vfil
1234 \section*{\SectFont\abstractname}%
1235 \noindent\ignorespaces}
1236 {\par\vfil\null\endtitlepage}
1237 \else
1238 \renewenvironment{abstract}{%
1239 \if@twocolumn
1240 \section*{\abstractname}%
1241 \else
1242 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1243 \section*{\small\SectFont\abstractname}%
1244 \noindent\ignorespaces
1245 \fi}
1246 {\if@twocolumn\else\par\egroup\fi}
1247 \fi
1248 \renewcommand*\left@footnoterule{%
1249 \kern-3\p@
1250 \kern.5\baselineskip
1251 \hrule\@width\unitindent
1252 \kern.4\baselineskip
1253 }
1254 \renewcommand*\right@footnoterule{%
1255 \kern-3\p@
1256 \kern.5\baselineskip
1257 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1258 \kern.4\baselineskip}
1259 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1260 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1261 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}

```



```

1262 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1263 \renewenvironment{thebibliography}[1]
1264     {\section*{\refname}%
1265      \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1266      \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
1267      \bidi@thebibliography@font@hook%
1268      \list{\@biblabel{\@arabic\c@enumiv}}%
1269          {\settowidth\labelwidth{\@biblabel{#1}}%
1270           \leftmargin\labelwidth
1271           \advance\leftmargin\labelsep
1272           \@openbib@code
1273           \usecounter{enumiv}%
1274           \let\p@enumiv\@empty
1275           \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1276      \sloppy\clubpenalty4000\widowpenalty4000%
1277      \sfcode\.\@m}
1278     {\def\@noitemerr
1279      {\@latex@warning{Empty `thebibliography' environment}}}%
1280     \endlist}
1281 \if@titlepage
1282 \renewcommand*\TitleFont{\rmfamily}
1283 \renewcommand*\maketitle{%
1284 \begin{titlepage}%
1285     \let\footnotesize\small
1286     \let\right@footnoterule\relax
1287     \let\left@footnoterule\relax
1288     \let\textwidth\footnoterule\relax
1289     \let \footnote \thanks
1290     \long\def\@makefntext##1{\parindent\z@
1291       \def\labelitemi{\textendash}\@revlabeltrue
1292       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1293     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1294     \if@compatibility\setcounter{page}{0}\fi
1295     \null\vfil
1296     \vskip 60\p@
1297     \begin{center}%
1298       \TitleFont
1299       {\LARGE \def\{\{\penalty -\@M}
1300        \if@allcaps
1301          \expandafter\uc@nothanks\@title\thanks\relax
1302        \else
1303          \@title
1304        \fi\par}%
1305     \vskip 3em%
1306     {\large
1307       \lineskip .75em \parindent\z@
1308       \begin{tabular}[t]{c}%
1309         \if@allcaps
1310           \expandafter\uc@authornothanks\@author\and\relax
1311         \else
1312           \@author
1313         \fi
1314       \end{tabular}\par}%
1315     \vskip 1.5em%

```



```

1316      {\large
1317        \if@allcaps
1318          \uppercase\expandafter{\@date}%
1319        \else
1320          \@date
1321        \fi\par}%
1322      \end{center}\par
1323      \@thanks
1324      \vfil\null
1325    \end{titlepage}%
1326    \setcounter{footnote}{0}%
1327    \global\let\thanks\relax
1328    \global\let\maketitle\relax
1329    \global\let\@thanks\@empty
1330    \global\let\@author\@empty
1331    \global\let\@title\@empty
1332    \global\let\@date\@empty
1333    \global\let\title\relax
1334    \global\let\author\relax
1335    \global\let\date\relax
1336    \global\let\and\relax
1337  }
1338  \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1339  \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1340    \futurelet\@tempa\uc@ax}
1341  \def\uc@ax{%
1342    \ifx\@tempa\relax
1343      \else
1344        \\\andname \\\expandafter\uc@authornothanks
1345      \fi}
1346  \def\uc@tx{\ifx\@tempa\relax
1347    \else \expandafter\uc@ty \fi}
1348  \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1349  \else
1350  \renewcommand*\maketitle{\par
1351    \begingroup
1352      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1353      \def\@makefnmark{\rlap{%
1354        \@textsuperscript{\normalfont\@thefnmark}}}%
1355      \long\def\@makefntext{\@xmakefntext{%
1356        \@textsuperscript{\normalfont\@thefnmark}}}%
1357      \if@twocolumn
1358        \ifnum \col@number=\@one
1359          \@maketitle
1360        \else
1361          \twocolumn[\@maketitle]%
1362        \fi
1363      \else
1364        \newpage
1365        \global\@topnum\z@
1366        \@maketitle
1367      \fi
1368      \thispagestyle{plain}\@thanks
1369    \endgroup

```



```

1370 \setcounter{footnote}{0}%
1371 \global\let\thanks\relax
1372 \global\let\maketitle\relax
1373 \global\let\@maketitle\relax
1374 \global\let\@thanks\@empty
1375 \global\let\@author\@empty
1376 \global\let\@title\@empty
1377 \global\let\@date\@empty
1378 \global\let\title\relax
1379 \global\let\author\relax
1380 \global\let\date\relax
1381 \global\let\and\relax
1382 }
1383 \def\@maketitle{%
1384 \newpage
1385 \null
1386 \vskip 2em%
1387 \if@titlecentered
1388 \begin{center}%
1389 \let \footnote \thanks
1390 {\LARGE \TitleFont \@title \par}%
1391 \vskip 1.5em%
1392 {\large \TitleFont
1393 \lineskip .5em%
1394 \begin{tabular}[t]{c}%
1395 \@author
1396 \end{tabular}\par}%
1397 \vskip 1em%
1398 {\large \TitleFont \@date}%
1399 \end{center}%
1400 \else
1401 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1402 {\large \TitleFont \lineskip .5em \tabcolsep\z@
1403 \def\and{%%} \begin{tabular} has already started
1404 \end{tabular}\hskip 1em plus .17fil
1405 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
1406 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\
1407 \vskip 1em {\large \TitleFont \@date}
1408 \fi
1409 \par
1410 \vskip 1.5em}
1411 \fi

```

### 13 File arydshln-xetex-bidi.def

```

1412 \ProvidesFile{arydshln-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for arydshln package]
1413 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTL\begin{array}\endR\egroup\fi\egroup}
1414 \def\endtabular{\endarray $\if@RTL\begin{array}\endR\fi\egroup}
1415 \expandafter\let\csname endtabular*\endcsname\endtabular
1416 \let\adl@array\@array
1417 \def\@array{\adl@everyvbox\everyvbox
1418 \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1419 \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1420 \let\adl@noalign\noalign

```





```

1421         \adl@array}
1422 \ifadl@usingarypkg
1423 \def\@testpach{\@chclass
1424 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1425 \ifnum \@lastchclass=7 5 \else
1426 \ifnum \@lastchclass=8 \tw@ \else
1427 \ifnum \@lastchclass=9 \thr@@
1428 \else \z@
1429 \ifnum \@lastchclass = 10 \else
1430 \edef\@nextchar{\expandafter\string\@nextchar}%
1431 \@chnum
1432 \if \@nextchar c\z@ \else
1433 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
1434 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
1435 \z@ \@chclass
1436 \if \@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1437 \if \@nextchar : \@ne \let\@arrayrule\adl@arraydashrule \else
1438 \if \@nextchar ; \@ne \let\@arrayrule\adl@argarraydashrule \else
1439 \if \@nextchar !6 \else
1440 \if \@nextchar @7 \else
1441 \if \@nextchar <8 \else
1442 \if \@nextchar >9 \else
1443 10
1444 \@chnum
1445 \if \@nextchar m\thr@@\else
1446 \if \@nextchar p4 \else
1447 \if \@nextchar b5 \else
1448 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1449 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1450
1451 \def\@classz{\@classx
1452 \@tempcnta \count@
1453 \prepnext@tok
1454 \@addtopreamble{\ifcase \@chnum
1455 \hfil
1456 \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1457 \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1458 \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1459 \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1460 \adl@endmbox\or
1461 \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1462 \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1463 \fi}\prepnext@tok}
1464 \def\adl@class@start{4}
1465 \def\adl@class@iiiorvii{7}
1466
1467 \else
1468 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1469 \ifnum \@lastchclass=\thr@@ 5\relax \else
1470 \z@ \if #1c\@chnum \z@ \else
1471 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
1472 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1473 \@chclass
1474 \if #1|\@ne \let\@arrayrule\adl@arrayrule \else

```



```

1475         \if #1:\@one \let\@arrayrule\adl@arraydashrule \else
1476         \if #1;\@one \let\@arrayrule\adl@argarraydashrule \else
1477         \if #1@tw@ \else
1478         \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1479     \fi \fi \fi \fi \fi \fi \fi \fi}
1480
1481 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1482     \or \or \@addamp \or
1483     \@acolampacol \or \@firstampfalse \@acol \fi
1484     \edef\@preamble{\@preamble
1485         \ifcase \@chnum
1486             \hfil\adl@putlrc{$\relax\@sharp$}\hfil
1487             \or \adl@putlrc{$\relax\@sharp$}\hfil
1488             \or \hfil\adl@putlrc{$\relax\@sharp$}\fi}}
1489 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1490     \or \or \@addamp \or
1491     \@acolampacol \or \@firstampfalse \@acol \fi
1492     \edef\@preamble{\@preamble
1493         \ifcase \@chnum
1494             \hfil\adl@putlrc{\@sharp\unskip}\hfil
1495             \or \adl@putlrc{\@sharp\unskip}\hfil
1496             \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1497 \def\adl@class@start{6}
1498 \def\adl@class@iiiorvii{3}
1499 \fi
1500 \ApplyPatchCodeToPackage{colortbl}{%
1501 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1502 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1503     \let\@endpbox\adl@org@endpbox}
1504 \let\adl@CT@setup\CT@setup
1505 \def\CT@setup{\adl@CT@setup
1506     \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1507     \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1508     \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1509 \let\adl@act@CT@setup\CT@setup
1510 \def\@classz{\@classx
1511     \@tempcnta\count@ \prepnext@tok
1512     \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1513     \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1514     \expandafter\adl@extract@drsc
1515     \the\toks\@tempcnta\doublerulesepcolor!\@nil
1516     \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1517     \@addtopreamble{\if@RTL\beginL\fi%
1518         \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1519         \ifcase \@chnum
1520             \hskip\stretch{.5}\kern\z@
1521             \dollarbegin
1522             \insert@column
1523             \dollarend\hskip\stretch{.5}%
1524             \or \dollarbegin \insert@column \dollarend \hfill
1525             \or \hfill \kern\z@ \dollarbegin \insert@column \dollarend
1526             \or $\vcenter
1527                 \@startpbox{\@nextchar}\insert@column \@endpbox $\%
1528             \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox

```



```

1529             \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1530             \fi
1531             \if@RTL\endR\fi\egroup\egroup
1532             \begingroup
1533                 \CT@setup
1534                 \CT@column@color
1535                 \CT@row@color
1536                 \CT@cell@color
1537                 \CT@do@color
1538             \endgroup
1539             \@tempdima\ht\z@
1540             \advance\@tempdima\minrowclearance
1541             \vrule\@height\@tempdima\@width\z@
1542             \unhbox\z@\if@RTL\endL\fi}%
1543     \prepnext@tok}
1544 \let\adl@act@classz\@classz
1545 \let\adl@org@classz\@classz
1546 }

```

## 14 File beamer-xetex-bidi.def

```

1547 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for Xe
1548 \AtBeginDocument{%
1549     \if@RTLmain
1550         \raggedleft
1551     \else
1552         \raggedright
1553     \fi
1554 }
1555
1556 \renewcommand*{\bidi@beamer@ragged}{%
1557     \if@RTL
1558         \raggedleft
1559     \else
1560         \raggedright
1561     \fi
1562 }
1563
1564

```

## 15 File beamerbaseauxtemplates-xetex-bidi.def

```

1565 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for be
1566 \bidi@csundef{beamer@tmpop@subsection in toc@sections numbered}
1567
1568 \bidi@csundef{beamer@tmpop@subsubsection in toc@sections numbered}
1569
1570 \bidi@csundef{beamer@tmpop@section in toc@subsections numbered}
1571
1572 \bidi@csundef{beamer@tmpop@subsection in toc@subsections numbered}
1573
1574 \bidi@csundef{beamer@tmpop@subsubsection in toc@subsections numbered}
1575
1576 \defbeamerteremplate{subsection in toc}{sections numbered}

```



```

1577 {\leavevmode\bidibeamer@leftskip=2.5em\inserttocsubsection\par}
1578
1579 \defbeamertemplate{subsubsection in toc}{sections numbered}
1580 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidibeamer@leftskip=3.5em\usebeamerfont{subsubsection in toc}%
1581 \inserttocsubsubsection\par}
1582
1583 \defbeamertemplate{section in toc}{subsections numbered}
1584 {\leavevmode\bidibeamer@leftskip=2em\inserttocsection\par}
1585
1586 \defbeamertemplate{subsection in toc}{subsections numbered}
1587 {\leavevmode\bidibeamer@leftskip=2em\rlap{\hskip-2em\inserttocsectionnumber.\inserttocsubsubsection in toc}%
1588 \inserttocsubsubsection\par}
1589 \defbeamertemplate{subsubsection in toc}{subsections numbered}
1590 {\leavevmode\normalsize\usebeamerfont{subsection in
1591 toc}\bidibeamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1592 \inserttocsubsubsection\par}
1593
1594 \bidi@csundef{beamer@@tmpop@section in toc@circle}
1595
1596 \bidi@csundef{beamer@@tmpop@subsection in toc@circle}
1597
1598 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1599
1600 \defbeamertemplate{section in toc}{circle}
1601 {\leavevmode\bidibeamer@leftskip=2ex%
1602 \llap{%
1603 \usebeamerfont*{section number projected}%
1604 \usebeamerfont{section number projected}%
1605 \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1606 \color{bg}
1607 \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1608 \pgfusepath{fill}
1609 \pgftext[base]{\color{fg}\inserttocsectionnumber}
1610 \end{pgfpicture}\kern1.25ex%
1611 }%
1612 \inserttocsection\par}
1613
1614 \defbeamertemplate{subsection in toc}{circle}
1615 {\leavevmode\bidibeamer@leftskip=2em\inserttocsubsection\par}
1616
1617 \defbeamertemplate{subsubsection in toc}{circle}
1618 {\leavevmode\normalsize\usebeamerfont{subsection in
1619 toc}\bidibeamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1620 \inserttocsubsubsection\par}
1621
1622 \bidi@csundef{beamer@@tmpop@section in toc@square}
1623
1624 \bidi@csundef{beamer@@tmpop@subsection in toc@square}
1625
1626 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1627
1628 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1629
1630 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}

```



```

1631
1632 \bidi@csundef{beamer@tmpop@enumerate subsubitem@square}
1633
1634 \bidi@csundef{beamer@tmpop@enumerate mini template@square}
1635
1636 \defbeamertemplate{section in toc}{square}
1637 {\leavevmode\bidi@beamer@leftskip=3ex%
1638 \llap{%
1639 \usebeamerfont*{section number projected}%
1640 \usebeamercolor[bg]{section number projected}%
1641 \if@RTL
1642 \else
1643 \vrule width2.25ex height1.85ex depth.4ex%
1644 \hskip-2.25ex%
1645 \fi
1646 \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}%
1647 \if@RTL
1648 \hskip-2.25ex%
1649 \vrule width2.25ex height1.85ex depth.4ex%
1650 \fi
1651 }\kern1.25ex}%
1652 \inserttocsection\par}
1653
1654 \defbeamertemplate{subsection in toc}{square}
1655 {\leavevmode\bidi@beamer@leftskip=5ex\llap{%
1656 \usebeamercolor[bg]{subsection number projected}%
1657 \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1658
1659 \defbeamertemplate{subsubsection in toc}{square}
1660 {\leavevmode\normalsize\usebeamerfont{subsection in
1661 toc}\bidi@beamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1662 \llap{%
1663 \usebeamercolor[bg]{subsubsection number projected}%
1664 \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1665
1666 \defbeamertemplate{enumerate item}{square}
1667 {
1668 \hbox{%
1669 \usebeamerfont*{item projected}%
1670 \usebeamercolor[bg]{item projected}%
1671 \if@RTL
1672 \else
1673 \vrule width2.25ex height1.85ex depth.4ex%
1674 \hskip-2.25ex%
1675 \fi
1676 \hbox to2.25ex{{
1677 \hfil%
1678 \color{fg}\insertenumlabel%
1679 \hfil}}}%
1680 \if@RTL
1681 \hskip-2.25ex%
1682 \vrule width2.25ex height1.85ex depth.4ex%
1683 \fi
1684 }}%

```



```

1685 }
1686 [action]
1687 {\setbeamerfont{item projected}{size=\scriptsize}}
1688
1689 \defbeamertemplate{enumerate subitem}{square}
1690 {
1691   \hbox{%
1692     \usebeamerfont*{subitem projected}%
1693     \usebeamercolor[bg]{subitem projected}%
1694     \if@RTL
1695     \else
1696       \vrule width2.25ex height1.85ex depth.4ex%
1697       \hskip-2.25ex%
1698     \fi
1699     \hbox to2.25ex{%
1700       \hfil%
1701       \color{fg}\insertsubenumlabel%
1702       \hfil}}%
1703     \if@RTL
1704       \hskip-2.25ex%
1705       \vrule width2.25ex height1.85ex depth.4ex%
1706     \fi
1707   }}%
1708 }
1709
1710 \defbeamertemplate{enumerate subsubitem}{square}
1711 {
1712   \hbox{%
1713     \usebeamerfont*{subitem projected}%
1714     \usebeamercolor[bg]{subsubitem projected}%
1715     \if@RTL
1716     \else
1717       \vrule width2.25ex height1.85ex depth.4ex%
1718       \hskip-2.25ex%
1719     \fi
1720     \hbox to2.25ex{%
1721       \hfil%
1722       \color{fg}\insertsubsubenumlabel%
1723       \hfil}}%
1724     \if@RTL
1725       \hskip-2.25ex%
1726       \vrule width2.25ex height1.85ex depth.4ex%
1727     \fi
1728   }}%
1729 }
1730
1731 \defbeamertemplate{enumerate mini template}{square}
1732 {
1733   \hbox{%
1734     \usebeamerfont*{\beameritemnestingprefix item projected}%
1735     \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1736     \if@RTL
1737     \else
1738       \vrule width2.25ex height1.85ex depth.4ex%

```



```

1739     \hskip-2.25ex%
1740     \fi
1741     \hbox to2.25ex{%
1742       \hfil%
1743       \color{fg}\insertenumlabel%
1744       \hfil}}%
1745     \if@RTL
1746       \hskip-2.25ex%
1747       \vrule width2.25ex height1.85ex depth.4ex%
1748     \fi
1749   }}%
1750 }
1751
1752 \bidi@csundef{beamer@@tmpop@section in toc@ball unnumbered}
1753
1754 \bidi@csundef{beamer@@tmpop@subsection in toc@ball unnumbered}
1755
1756 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball unnumbered}
1757
1758 \defbeamertemplate{section in toc}{ball unnumbered}
1759 {\leavevmode\bidi@beamer@leftskip=2.25ex%
1760   \llap{%
1761     \raise0.1ex\beamer@usesphere{section number projected}{bigsphere}\kern1.25ex}%
1762   \inserttocsection\par}
1763
1764 \defbeamertemplate{subsection in toc}{ball unnumbered}
1765 {\leavevmode\bidi@beamer@leftskip=5.1ex\llap{%
1766   \raise0.2ex\beamer@usesphere{subsection number projected}{smallsphere}\kern1ex}\inserttocsub
1767
1768 \defbeamertemplate{subsubsection in toc}{ball unnumbered}
1769 {\leavevmode\normalsize\usebeamerfont{subsection in
1770   toc}\bidi@beamer@leftskip=8.2ex\usebeamerfont{subsubsection in toc}%
1771   \llap{%
1772     \beamer@usesphere{subsubsection number projected}{smallsphere}\kern0.75ex}\inserttocsubs
1773
1774 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1775
1776 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1777
1778 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1779
1780 \defbeamertemplate{section in toc}{ball}
1781 {\leavevmode\bidi@beamer@leftskip=2.75ex%
1782   \llap{%
1783     \normalsize%
1784     \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1785       \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1786       \pgftext{%
1787         \usebeamerfont*{section number projected}%
1788         \usebeamerfont*{section number projected}%
1789         \color{fg!90!bg}%
1790         \inserttocsectionnumber}
1791     \end{pgfpicture}%
1792     \kern1.25ex}%

```



```

1793 \inserttocsection\par
1794 }
1795 [action]
1796 {\setbeamerfont{section number projected}{size=\scriptsize}}
1797
1798 \defbeamertemplate{subsection in toc}{ball}
1799 {\leavevmode\bidibeamer@leftskip=5ex%
1800 \llap{\raise0.1ex\beamer@usesphere{subsection number projected}{bigsphere}\kern1ex}%
1801 \inserttocsubsection\par%
1802 }
1803
1804 \defbeamertemplate{subsubsection in toc}{ball}
1805 {\leavevmode\normalsize\usebeamerfont{subsection in
1806 toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1807 \llap{\beamer@usesphere{subsubsection number projected}{bigsphere}\kern0.75ex}%
1808 \inserttocsubsubsection\par%
1809 }
1810
1811 \bidi@csundef{beamer@@tmpop@block begin@rounded}
1812
1813 \bidi@csundef{beamer@@tmpop@block alerted begin@rounded}
1814
1815 \bidi@csundef{beamer@@tmpop@block example begin@rounded}
1816
1817 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1818 {%
1819 \par\vskip\medskipamount%
1820 \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1821 {\raggedright\usebeamerfont*{block title}\insertblocktitle}%
1822 \bidi@beamer@ragged%
1823 \usebeamerfont{block body}%
1824 }%
1825
1826 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1827 {%
1828 \par\vskip\medskipamount%
1829 \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1830 {\raggedright\usebeamerfont*{block title alerted}\insertblocktitle}%
1831 \bidi@beamer@ragged%
1832 \usebeamerfont{block body alerted}%
1833 }%
1834
1835 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]
1836 {%
1837 \par\vskip\medskipamount%
1838 \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]%
1839 {\raggedright\usebeamerfont*{block title example}\insertblocktitle}%
1840 \bidi@beamer@ragged%
1841 \usebeamerfont{block body example}%
1842 }%
1843
1844 \bidi@csundef{beamer@@tmpop@caption@numbered}
1845
1846 \defbeamertemplate{caption}{numbered}

```





```

1847 {%
1848   \leavevmode
1849   \bidi@beamer@ragged
1850   {%
1851     \usebeamercolor[fg]{caption name}%
1852     \usebeamerfont*{caption name}%
1853     \insertcaptionname~\insertcaptionnumber
1854     \usebeamertemplate{caption label separator}%
1855   }%
1856   \insertcaption\par
1857 }
1858
1859 \bidi@csundef{beamer@@tmpop@caption@caption name own line}
1860
1861 \defbeamertemplate{caption}{caption name own line}
1862 {%
1863   \begin{minipage}{\textwidth}
1864     \leavevmode
1865     \bidi@beamer@ragged
1866     {%
1867       \usebeamercolor[fg]{caption name}%
1868       \usebeamerfont*{caption name}%
1869       \insertcaptionname%
1870     }\\
1871     \insertcaption
1872   \end{minipage}
1873 }
1874
1875 \ApplyPatchCodeToPackage{caption}{%
1876   \DeclareCaptionFont{beamer@font}{%
1877     \usebeamerfont*{caption}%
1878     \usebeamercolor[fg]{caption}%
1879   }
1880   \SetCaptionDefault{font}{beamer@font}
1881   \DeclareCaptionJustification{bidi@beamer@ragged}{\bidi@beamer@ragged}
1882   \SetCaptionDefault{justification}{bidi@beamer@ragged}
1883 }
1884

```

## 16 File beamerbaseboxes-xetex-bidi.def

```

1885 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbas
1886 \renewcommand\beamerboxesrounded[2] [] {%
1887   \global\let\beamer@firstlineitemizeunskip=\relax%
1888   \vbox\bgroup%
1889   \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1890   \setkeys{beamerboxes}{#1}%
1891   {%
1892     \usebeamercolor{\bmb@lower}%
1893     \globalcolorstrue%
1894     \colorlet{lower.bg}{bg}%
1895   }%
1896   {%
1897     \usebeamercolor{\bmb@upper}%

```



```

1898 \globalcolorstrue%
1899 \colorlet{upper.bg}{bg}%
1900 }%
1901 %
1902 % Typeset head
1903 %
1904 \vskip4bp
1905 \setbox\bmb@box=\hbox{%
1906   \begin{minipage}[b]{\bmb@width}%
1907     \usebeamercolor{fg}{\bmb@upper}%
1908     #2%
1909   \end{minipage}}%
1910 \ifdim\wd\bmb@box=0pt%
1911   \setbox\bmb@box=\hbox{}%
1912   \ht\bmb@box=1.5pt%
1913   \bmb@prevheight=-4.5pt%
1914 \else%
1915   \wd\bmb@box=\bmb@width%
1916   \bmb@temp=\dp\bmb@box%
1917   \ifdim\bmb@temp<1.5pt%
1918     \bmb@temp=1.5pt%
1919   \fi%
1920   \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1921   \dp\bmb@box=0pt%
1922   \bmb@prevheight=\ht\bmb@box%
1923 \fi%
1924 \bmb@temp=\bmb@width%
1925 \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1926 \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1927 \hbox{%
1928   \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1929     \ifdim\wd\bmb@box=0pt%
1930       \color{lower.bg}%
1931     \else%
1932       \color{upper.bg}%
1933     \fi%
1934     \pgfpathmoveto{-4bp}{-1bp}
1935     \pgfpathqcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1936     \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1937     \pgfpathcurveto%
1938       {\pgfpoint{\bmb@dima}{3bp}}%
1939       {\pgfpoint{\bmb@dimb}{1.2bp}}%
1940       {\pgfpoint{\bmb@dimb}{-1bp}}%
1941     \bmb@dima=-\ht\bmb@box%
1942     \advance\bmb@dima by-2pt%
1943     \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1944     \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1945     \pgfusepath{fill}
1946   \end{pgfpicture}%
1947   \copy\bmb@box%
1948 }%
1949 \nointerlineskip%
1950 \vskip-1pt%
1951 \ifdim\wd\bmb@box=0pt%

```



```

1952 \else%
1953 \hbox{%
1954   \begin{pgfpicture}{Opt}{Opt}{\bmb@width}{6pt}
1955     \bmb@dima=\bmb@width%
1956     \advance\bmb@dima by8bp%
1957     \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dima}{8bp}}
1958     \pgfusepath{clip}
1959     {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuses shading{\bmb@transi
1960   \end{pgfpicture}%
1961 }%
1962 \nointerlineskip%
1963 \vskip-0.5pt%
1964 \fi%
1965 \setbox\bmb@colorbox=\hbox{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1966 \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1967   \vskip2pt%
1968   \usebeamercolor[fg]{\bmb@lower}%
1969   \colorlet{beamerstructure}{upper.bg}%
1970   \colorlet{structure}{upper.bg}%
1971   %\color{.}%
1972   \@bidi@list@minipage@parboxfalse
1973 }
1974
1975 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1976   \begingroup
1977   \@RTLfalse
1978 }{}{}
1979
1980

```

## 17 File beamerbasecolor-xetex-bidi.def

```

1981 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerbas
1982 \renewenvironment{beamercolorbox}[2][{}]{%
1983   \def\beamer@vmode{\leavevmode}%
1984   \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1985     leftskip=0pt,rightskip=0pt plus1fil,%
1986     sep=0pt,colsep=0pt,colsep*=0pt,%
1987     shadow=false,rounded=false,ignorebg=false}%
1988   \ifRTL
1989     \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1990   \else
1991     \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1992   \fi
1993   \setkeys{beamercolbox}{#1}%
1994   \ifbeamercoloreempty[bg]{#2}{\@tempwafalse}{\@tempwatrue}%
1995   \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
1996   \def\beamer@colbox@color{#2}%
1997   \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
1998     \ifbeamer@colbox@ignorebg%
1999       \colorlet{beamer@temp@color}{bg}%
2000       \usebeamercolor[fg]{#2}%
2001       \colorlet{bg}{beamer@temp@color}%
2002     \else%

```



```

2003     \usebeamercolor[fg]{#2}%
2004     \fi%
2005     \beginL
2006     \vbox\bgroup%
2007     \hsize=\beamer@colbox@wd%
2008     \@arrayparboxrestore%
2009     \leftskip=\beamer@colbox@ls%
2010     \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
2011     \rightskip=\beamer@colbox@rs%
2012     \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
2013     \if@tempswa\ifdim\beamer@colbox@colsep>\z@%
2014         \advance\leftskip by\beamer@colbox@colsep%
2015         \advance\rightskip by\beamer@colbox@colsep%
2016         \vskip\beamer@colbox@colsep%
2017     \fi%
2018     \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2019     \fi%
2020     \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2021     \beamer@vmode\ignorespaces}{%
2022     \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2023     \if@tempswa
2024         \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
2025         \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2026     \fi%
2027     \egroup\endL\color@endgroup\egroup%
2028     \wd\beamer@tempbox=\beamer@colbox@wd%
2029     \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
2030     \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
2031     \ifbeamer@colbox@rounded%
2032         \if@tempswa%
2033             \begin{beamerboxesrounded}[%
2034                 shadow=\beamer@colbox@shadow,%
2035                 lower=\beamer@colbox@color,%
2036                 upper=normal text,%
2037                 width=\beamer@colbox@wd]{%
2038                 \box\beamer@tempbox%
2039                 \end{beamerboxesrounded}%
2040             \else%
2041                 \ifdim\wd\beamer@tempbox>\textwidth%
2042                     \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2043                 \fi%
2044                 \box\beamer@tempbox%
2045             \fi%
2046         \else%
2047             \if@tempswa\setbox\beamer@tempbox=\hbox{%
2048                 \usebeamercolor{\beamer@colbox@color}%
2049                 \hskip-\beamer@colbox@colseps%
2050                 \fboxsep=\z@\colorbox{bg}{%
2051                     \hskip\beamer@colbox@colseps%
2052                     \box\beamer@tempbox%
2053                     \hskip\beamer@colbox@colseps%
2054                 }%
2055                 \hskip-\beamer@colbox@colseps%
2056             }\fi%

```



```

2057 \ifdim\wd\beamer@tempbox>\textwidth%
2058 \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box\
2059 \fi%
2060 \box\beamer@tempbox%
2061 \fi%
2062 }
2063
2064

```

## 18 File beamerbasecompatibility-xetex-bidi.def

```

2065 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for b
2066 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\h
2067
2068

```

## 19 File beamerbaseframecomponents-xetex-bidi.def

```

2069 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2024/12/28 v0.7 bidi adaptations for
2070 \renewcommand{\setbeamersize}[1]{%
2071 \beamer@dgeometryfalse%
2072 \setkeys{beamer@margin}{#1}%
2073 \ifbeamer@dgeometry%
2074 % Reset left margin now
2075 \beamer@tempdim=\beamer@leftmargin%
2076 \advance\beamer@tempdim by\beamer@leftsidebar%
2077 \if@RTLmain
2078 \geometry{right=\the\beamer@tempdim}%
2079 \else
2080 \geometry{left=\the\beamer@tempdim}%
2081 \fi
2082 % Reset right margin now
2083 \beamer@tempdim=\beamer@rightmargin%
2084 \advance\beamer@tempdim by\beamer@rightsidebar%
2085 \if@RTLmain
2086 \geometry{left=\the\beamer@tempdim}%
2087 \else
2088 \geometry{right=\the\beamer@tempdim}%
2089 \fi
2090 \fi%
2091 }
2092
2093 \newcommand*{\bidi@beamer@Gm@lmargin}{%
2094 \if@RTLmain
2095 \Gm@rmargin
2096 \else
2097 \Gm@lmargin
2098 \fi
2099 }
2100
2101 \newcommand*{\bidi@beamer@Gm@rmargin}{%
2102 \if@RTLmain
2103 \Gm@lmargin
2104 \else

```



```

2105 \Gm@rmargin
2106 \fi
2107 }
2108
2109 \def\ps@navigation{
2110 \def\@oddhead{%
2111 \begingroup%
2112 \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2113 \beamer@tempdim=\ht\beamer@tempbox%
2114 \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2115 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2116 \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2117 \beamer@tempdim=\ht\@tempboxa%
2118 \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2119 \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2120 \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}%
2121 \hbox{%
2122 {%
2123 \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
2124 \if@RTLmain
2125 {%
2126 \vbox to \sidebarheight{%
2127 \usebeamertemplate***{sidebar left}}%
2128 \vfil%
2129 }}%
2130 \ApplyPatchIfPackageLoadedF{beamerinnerthemeinmargin}{%
2131 \hskip-\textwidth
2132 }%
2133 \fi
2134 {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2135 \usebeamercolor*{sidebar left}}%
2136 \usebeamertemplate{sidebar canvas left}}%
2137 \vss%
2138 }}%
2139 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2140 \box\beamer@tempbox}%
2141 \if@RTLmain
2142 \else
2143 {%
2144 \vbox to \sidebarheight{%
2145 \usebeamertemplate***{sidebar left}}%
2146 \vfil%
2147 }}\fi}%
2148 \beamer@tempdim=\ht\beamer@tempbox%
2149 \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2150 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2151 \box\beamer@tempbox%
2152 }%
2153 {% print right sidebar first, since it should be overwritten by headline
2154 \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2155 \if@RTLmain
2156 {%
2157 \vbox to \sidebarheight{%
2158 \usebeamertemplate***{sidebar right}}%

```



```

2159         \vfil%
2160     }}%
2161     \hskip-\textwidth
2162     \fi
2163     {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2164         \usebeamercolor*{sidebar right}%
2165         \usebeamertemplate{sidebar canvas right}%
2166         \vss%
2167     }}%
2168     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2169     \box\beamer@tempbox}%
2170     \if@RTLmain
2171     \else
2172     {%
2173         \vbox to \sidebarheight{%
2174             \usebeamertemplate***{sidebar right}%
2175             \vfil%
2176         }}\fi}%
2177     \beamer@tempdim=\ht\beamer@tempbox%
2178     \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2179     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2180     \box\beamer@tempbox%
2181     }%
2182     \beamer@typesetheadorfoot{headline}%
2183     }%
2184     \hfil}%
2185     \endgroup}
2186     \def\@oddfoot{%
2187         \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}%
2188             \hfil}\hbox{}}\hfil
2189     }%
2190     \let\@evenhead\@oddhead
2191     \let\@evenfoot\@oddfoot}
2192
2193     \AtBeginDocument{%
2194         \pagestyle{navigation}%
2195     }
2196
2197     \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2198         {\parskip0pt\offinterlineskip%
2199             \hbox{%
2200                 \hskip-\bidi@beamer@Gm@lmargin%
2201                 \hbox{%
2202                     \vbox{%
2203                         \@tempdima=\textwidth%
2204                         \textwidth=\paperwidth%
2205                         \hsize=\textwidth%
2206                         \def\{\,%
2207                             \usebeamertemplate***{#1}%
2208                         }}%
2209                     \hskip-\bidi@beamer@Gm@rmargin%
2210                 }}\hfil%
2211         }
2212

```



```

2213 \def\ps@empty{%
2214   \let\@mkboth\@gobbletwo%
2215   \def\@oddhead{\begingroup%
2216     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransition%
2217     \beamer@tempdim=\ht\beamer@tempbox%
2218     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2219     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2220     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2221     \beamer@tempdim=\ht\@tempboxa%
2222     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2223     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2224     \vbox{\hbox{\hskip-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box\@tempboxa}%
2225     \endgroup%
2226   }
2227   \def\@oddfoot{\normalcolor\hfil%
2228     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hskip-\bidi@beamer@margin%
2229     \ht\beamer@tempbox=0pt%
2230     \dp\beamer@tempbox=0pt%
2231     \box\beamer@tempbox}}
2232   \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot}
2233
2234 \renewenvironment<>{beamer@columnenv}[2][\beamer@colmode]{%
2235   \beamer@colclose\def\beamer@colclose{%
2236     \begin{actionenv}#3%
2237       \setkeys{beamer@col}{#1}%
2238       \begin{minipage}[\beamer@colalign]{#2}%
2239         \leavevmode\bidibeamer@ragged\beamer@colheadskip\ignorespaces}
2240       {\end{minipage}\hfill\end{actionenv}\@ignoretrue}
2241   \let\endcolumn\endbeamer@columnenv
2242
2243 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2244   \beamer@colclose%
2245   \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2246   \begin{actionenv}#3%
2247     \setkeys{beamer@col}{#1}%
2248     \begin{minipage}[\beamer@colalign]{#2}%
2249       \leavevmode\bidibeamer@ragged\beamer@colheadskip\ignorespaces}
2250
2251 \renewenvironment<>{columns}[1][{}]{%
2252   \begin{actionenv}#2%
2253     \ifbeamer@onlytextwidth
2254       \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2255       \def\beamer@colexitcode{\unskip\egroup}
2256     \else%
2257       \def\beamer@colentrycode{%
2258         \hbox to\textwidth\bgroup%
2259         \leavevmode%
2260         \hskip-\beamer@leftmargin%
2261         \nobreak%
2262         \beamer@tempdim=\textwidth%
2263         \advance\beamer@tempdim by\beamer@leftmargin%
2264         \advance\beamer@tempdim by\beamer@rightmargin%
2265         \hbox to\beamer@tempdim\bgroup%
2266         \hbox{}\hfill\ignorespaces}%

```





```

2267 \def\beamer@colexitcode{\egroup%
2268 \nobreak%
2269 \hskip-\beamer@rightmargin\egroup}%
2270 \fi%
2271 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2272 \setkeys{beamer@col}{#1}%
2273 \par%
2274 \leavevmode
2275 \beamer@colentrycode%
2276 \def\beamer@colclose{}\ignorespaces}%
2277 {\beamer@colclose\def\beamer@colclose{}\beamer@colexitcode\end{actionenv}}%
2278
2279
2280 \def\@makeRTLfntext#1{%
2281 \def\insertfootnotetext{#1}%
2282 \def\insertfootnotemark{\@makefnmark}%
2283 \usebeamertemplate***{RTLfootnote}}
2284
2285 \def\@makeLTRfntext#1{%
2286 \def\insertfootnotetext{#1}%
2287 \def\insertfootnotemark{\@makefnmark}%
2288 \usebeamertemplate***{LTRfootnote}}
2289
2290 \renewcommand<>\beamer@framefootnotetext[1]{%
2291 \global\setbox\beamer@footins\vbox{%
2292 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2293 \hsize\framewidth
2294 \textwidth\hsize
2295 \columnwidth\hsize
2296 \unvbox\beamer@footins
2297 \reset@font
2298 \bidi@@footnotetext@font
2299 \@parboxrestore
2300 \protected@edef\@currentlabel
2301 {\csname p@footnote\endcsname\@thefnmark}%
2302 \color@begingroup
2303 \uncover#2{\@makefntext{%
2304 \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2305 \color@endgroup}}
2306
2307 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2308 \global\setbox\beamer@footins\vbox{%
2309 \@RTLtrue
2310 \hsize\framewidth
2311 \textwidth\hsize
2312 \columnwidth\hsize
2313 \unvbox\beamer@footins
2314 \reset@font
2315 \bidi@@RTLfootnotetext@font
2316 \@parboxrestore
2317 \protected@edef\@currentlabel
2318 {\csname p@footnote\endcsname\@thefnmark}%
2319 \color@begingroup
2320 \uncover#2{\@makeRTLfntext{%

```



```

2321         \rule{z@{\footnotesep}\ignorespaces#1\@finalstrut\strutbox}}%
2322     \color@endgroup}}
2323
2324 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2325     \global\setbox\beamer@footins\vbox{%
2326         \RTLfalse
2327         \hsize\framewidth
2328         \textwidth\hsize
2329         \columnwidth\hsize
2330         \unvbox\beamer@footins
2331         \reset@font
2332         \bidi@LTRfootnotetext@font
2333         \@parboxrestore
2334         \protected@edef\@currentlabel
2335             {\csname p@footnote\endcsname\@thefnmark}%
2336         \color@begingroup
2337         \uncover#2{\@makeLTRfntext{%
2338             \rule{z@{\footnotesep}\ignorespaces#1\@finalstrut\strutbox}}%
2339         \color@endgroup}}
2340
2341 \renewcommand<>\@mpfootnotetext[1]{%
2342 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnoterule
2343 \global\setbox\@mpfootins\vbox{%
2344     \unvbox\@mpfootins
2345     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
2346     \reset@font
2347     \bidi@footnotetext@font
2348     \hsize\columnwidth
2349     \@parboxrestore
2350     \protected@edef\@currentlabel
2351         {\csname p@mpfootnote\endcsname\@thefnmark}%
2352     \color@begingroup
2353     \uncover#2{\@makefntext{%
2354         \rule{z@{\footnotesep}\ignorespaces#1\@finalstrut\strutbox}}%
2355     \color@endgroup}}
2356
2357 \renewcommand<>\@mpRTLfootnotetext[1]{%
2358 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnoterule
2359 \global\setbox\@mpfootins\vbox{%
2360     \unvbox\@mpfootins
2361     \@RTLtrue
2362     \reset@font
2363     \bidi@RTLfootnotetext@font
2364     \hsize\columnwidth
2365     \@parboxrestore
2366     \protected@edef\@currentlabel
2367         {\csname p@mpfootnote\endcsname\@thefnmark}%
2368     \color@begingroup
2369     \uncover#2{\@makeRTLfntext{%
2370         \rule{z@{\footnotesep}\ignorespaces#1\@finalstrut\strutbox}}%
2371     \color@endgroup}}
2372
2373 \renewcommand<>\@mpLTRfootnotetext[1]{%
2374 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnoterule

```



```

2375 \global\setbox\@mpfootins\vbox{%
2376 \unvbox\@mpfootins
2377 \@RTLfalse
2378 \reset@font
2379 \bidi@@LTRfootnotetext@font
2380 \hsize\columnwidth
2381 \@parboxrestore
2382 \protected@edef\@currentlabel
2383 {\csname p@mpfootnote\endcsname\@thefnmark}%
2384 \color@begingroup
2385 \uncover#2{\@makeLTRfntext{%
2386 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2387 \color@endgroup}}
2388
2389 \let\footnotetext=\beamer@framefootnotetext
2390 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2391 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2392
2393 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2394 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2395 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2396
2397 \renewcommand<>{\footnote}[1][{}]{%
2398 \let\beamer@footnotetext=\@footnotetext%
2399 \let\beamer@mpfn=\@mpfn%
2400 \let\beamer@thempfn=\thempfn%
2401 \let\beamer@kvorig=\KV@errx%
2402 \let\beamer@xkvorig=\XKV@err
2403 \def\beamer@footarg{}%
2404 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2405 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2406 \setkeys{beamerfootnote}{#1}%
2407 \let\KV@errx=\beamer@kvorig%
2408 \let\XKV@errx=\beamer@xkvorig
2409 \ifx\beamer@footarg\@empty%
2410 \def\beamer@next{\stepcounter\beamer@mpfn
2411 \protected@xdef\@thefnmark{\beamer@thempfn}%
2412 \@footnotemark\beamer@footnotetext#2}%
2413 \else%
2414 \def\beamer@next{%
2415 \begingroup
2416 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2417 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2418 \endgroup
2419 \@footnotemark\beamer@footnotetext#2}%
2420 \fi%
2421 \beamer@next}
2422
2423 \renewcommand<>{\RTLfootnote}[1][{}]{%
2424 \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2425 \let\beamer@mpfn=\@mpfn%
2426 \let\beamer@thempfn=\thempfn%
2427 \let\beamer@kvorig=\KV@errx%
2428 \let\beamer@xkvorig=\XKV@err

```



```

2429 \def\beamer@footarg{}%
2430 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2431 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2432 \setkeys{beamerfootnote}{#1}%
2433 \let\KV@errx=\beamer@kvorig%
2434 \let\XKV@errx=\beamer@xkvorig%
2435 \ifx\beamer@footarg\@empty%
2436   \def\beamer@next{\stepcounter\beamer@mpfn
2437     \protected@xdef\@thefnmark{\beamer@thempfn}%
2438     \@footnotemark\beamer@RTLfootnotetext#2}%
2439 \else%
2440   \def\beamer@next{%
2441     \begingroup
2442       \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2443       \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2444     \endgroup
2445     \@footnotemark\beamer@RTLfootnotetext#2}%
2446 \fi%
2447 \beamer@next}
2448
2449 \renewcommand<>{\LTRfootnote}[1][{}]{%
2450   \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2451   \let\beamer@mpfn=\@mpfn%
2452   \let\beamer@thempfn=\thempfn%
2453   \let\beamer@kvorig=\KV@errx%
2454   \let\beamer@xkvorig=\XKV@err
2455   \def\beamer@footarg{}%
2456   \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2457   \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2458   \setkeys{beamerfootnote}{#1}%
2459   \let\KV@errx=\beamer@kvorig%
2460   \let\XKV@errx=\beamer@xkvorig%
2461   \ifx\beamer@footarg\@empty%
2462     \def\beamer@next{\stepcounter\beamer@mpfn
2463       \protected@xdef\@thefnmark{\beamer@thempfn}%
2464       \@footnotemark\beamer@LTRfootnotetext#2}%
2465   \else%
2466     \def\beamer@next{%
2467       \begingroup
2468         \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2469         \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2470       \endgroup
2471       \@footnotemark\beamer@LTRfootnotetext#2}%
2472   \fi%
2473   \beamer@next}
2474
2475

```

## 20 File beamerbaseframesize-xetex-bidi.def

```

2476 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamer]
2477 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2478   \par\nointerlineskip%
2479   \global\beamer@slidehaszoomtrue%

```



```

2480 \advance\beamer@zoomcount by1\relax%
2481 \def\beamer@zoomborderwidth{0}%
2482 \edef\beamer@labelzoomed{\beamer@labelzoomed@\the\beamer@zoomframecount @\the\beamer@zoomcount}%
2483 \setkeys{beamerzoom}{#3}%
2484 \only<#1>{%
2485   {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2486   \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2487     \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2488       \vbox to #7{%
2489         \hbox to#6{\hfil}%
2490         \vfil%
2491       }%
2492     \else%
2493       \begingroup%
2494       \normalsize%
2495       \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2496       \pgfsetfillopacity{0}
2497       \pgftext[x=0cm,y=3pt]{.}
2498       \pgftext[x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2499       \end{pgfpicture}%
2500       \endgroup%
2501     \fi%
2502   }}%
2503   \ht\@tempboxa=0pt%
2504   \wd\@tempboxa=0pt%
2505   \dp\@tempboxa=0pt%
2506   \setbox\@tempboxa=\vbox{\if@RTL\moveleft\else\moveright\fi#4\hbox{\lower#5\vbox{\box\@tempboxa}%
2507   \ht\@tempboxa=0pt%
2508   \wd\@tempboxa=0pt%
2509   \dp\@tempboxa=0pt%
2510   \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2511 }%
2512 \only<#2>{%
2513   \@ifundefined{\beamer@labelzoomed}%
2514   {%
2515     \hypertarget{\beamer@labelzoomed}{}%
2516     \expandafter\gdef\csname\beamer@labelzoomed\endcsname{}%
2517   }{}%
2518   \gdef\beamer@zoomer{%
2519     % compute zoom factor
2520     \@tempdima=\beamer@frametextheight%
2521     \@tempdimb=#7\relax%
2522     \@tempcnta=\@tempdimb%
2523     \divide\@tempcnta by4096\relax%
2524     \multiply\@tempdima by16\relax%
2525     \divide\@tempdima by\@tempcnta%
2526     \@tempdimb=\paperwidth%
2527     \ifbeamer@plainframe%
2528     \else%
2529       \advance\@tempdimb by-\beamer@leftsidebar%
2530       \advance\@tempdimb by-\beamer@rightsidebar\relax%
2531     \fi%
2532     \@tempdimc=#6\relax%
2533     \@tempcntb=\@tempdimc%

```



```

2534 \divide\@tempcntb by4096\relax%
2535 \multiply\@tempdimb by16\relax%
2536 \divide\@tempdimb by\@tempcntb%
2537 \ifdim\@tempdimb<\@tempdima%
2538 \@tempdima=\@tempdimb%
2539 \fi%
2540 \edef\beamer@temp{\strip@pt\@tempdima}%
2541 \@tempdimc=\beamer@frametextheight%
2542 \advance\@tempdimc by4pt%
2543 \@tempdimb=\paperwidth%
2544 \ifbeamer@plainframe%
2545 \else%
2546 \advance\@tempdimb by-\beamer@leftsidebar%
2547 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2548 \fi%
2549 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2550 \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2551 \ht\@tempboxa=0pt%
2552 \wd\@tempboxa=0pt%
2553 \dp\@tempboxa=0pt%
2554 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2555 \ifbeamer@plainframe\beamer@leftmargin=\Gm@lmargin\fi%
2556 \if@RTL
2557 \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\pgftext[right,top]{\box\@tempboxa}\pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}\pgfusepath{clip}\begin{pgftransformgroup\pgftransformscale{\beamer@temp}\@tempdima=#4\relax%\@tempdimb=#5\relax%\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}%\pgftext[right,top]{\vbox{\vbox{}\nointerlineskip\unvbox\beamer@framebox}}}\end{pgftransformgroup}\end{pgfpicture}}%
2558 \else
2559 \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargin}{-\beamer@frametextheight}{\pgftext[left,top]{\box\@tempboxa}\pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}\pgfusepath{clip}\begin{pgftransformgroup\pgftransformscale{\beamer@temp}\@tempdima=#4\relax%\@tempdimb=#5\relax%\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}%\pgftext[left,top]{\vbox{\vbox{}\nointerlineskip\unvbox\beamer@framebox}}}\end{pgftransformgroup}\end{pgfpicture}}%
2560 \fi
2561 }%
2562 \setbox\beamer@framebox=\vbox{%
2563 \nobreak\vbox{}\nobreak\par\nobreak\beamer@entrycode\nobreak%
2564 \nointerlineskip\unvbox\beamer@frametitlebox%
2565 \nobreak%

```



```

2588         \box\beamer@framebox%
2589         \nobreak%
2590         \vss%
2591         \beamer@exitcode%
2592     }%
2593     \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2594 }%
2595 }%
2596 }
2597
2598

```

## 21 File beamerbaselocalstructure-xetex-bidi.def

```

2599 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2600 \def\beamer@enum@{%
2601     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2602     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2603     \bgroup
2604     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2605     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body begin}%
2606     \egroup
2607     \expandafter
2608     \list
2609         {\usebeamerfont{\beamer@enum@templ}}
2610         {\usecounter\@enumctr%
2611             \def\makelabel##1{\hss\llap{\%
2612                 \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2613                 \usebeamerfont{itemize/enumerate \beameritemnestingprefix item}##1}}}%
2614     \beamer@cramped%
2615     \bidi@beamer@ragged%
2616     \beamer@firstlineitemizeunskip%
2617 }
2618
2619 \renewcommand{\itemize}[1][\%
2620     \ifblank{#1}{\def\beamer@defaulttospec{#1}}%
2621     \ifnum \@itemdepth >2\relax\@toodeep\else
2622         \advance\@itemdepth\@ne
2623         \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2624         \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2625         \bgroup
2626         \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2627         \usebeamerfont{itemize/enumerate \beameritemnestingprefix body begin}%
2628         \egroup
2629         \list
2630             {\usebeamerfont{itemize \beameritemnestingprefix item}}
2631             {\def\makelabel##1{\%
2632                 {\%
2633                     \hss\llap{\%
2634                         \usebeamerfont*{itemize \beameritemnestingprefix item}%
2635                         \usebeamerfont{itemize \beameritemnestingprefix item}##1}}}%
2636                 }%
2637             }%
2638     }

```



```

2639 \fi%
2640 \beamer@cramped%
2641 \bidi@beamer@ragged%
2642 \beamer@firstlineitemizeunskip%
2643 }
2644
2645 \def\@@description{%
2646 \advance\beamer@descdefault by \labelsep%
2647 \usebeamerfont{description body}%
2648 \bgroup
2649 \usebeamercolor[fg]{description body}%
2650 \usebeamertemplate{description body begin}%
2651 \egroup
2652 \list
2653 {}
2654 {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2655 \beamer@cramped%
2656 \bidi@beamer@ragged
2657 \beamer@firstlineitemizeunskip%
2658 }
2659
2660 \renewenvironment{thebibliography}[1]
2661 {%\leavevmode\unskip%
2662 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
2663 \bidi@@thebibliography@font@hook%
2664 \list{\@biblabel{\@arabic\c@enumiv}}%
2665 {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2666 \leftmargin\labelwidth
2667 \advance\leftmargin\labelsep
2668 \itemsep=0pt%
2669 \partopsep=0pt%
2670 \topsep=0pt%
2671 \usecounter{enumiv}%
2672 \let\p@enumiv\@empty
2673 \renewcommand\theenumiv{\@arabic\c@enumiv}
2674 \let\makelabel\beamer@biblabeltemplate}%
2675 \sloppy\bidi@beamer@ragged
2676 \clubpenalty10000
2677 \@clubpenalty \clubpenalty
2678 \widowpenalty10000%
2679 \sfcode`\.\@m}
2680 {\def\@noitemerr
2681 {\@latex@warning{Empty `thebibliography' environment}}}%
2682 \ifhmode\unskip\fi\endlist}
2683
2684

```

## 22 File beamerbasemisc-xetex-bidi.def

```

2685 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbase
2686 \define@key{beamerst}{width}{%
2687 \def\beamer@ststart{%
2688 \begin{minipage}[t]{#1}%
2689 \bidi@beamer@ragged

```





```

2690     \beamer@stalign
2691     \beamer@stlinebreakrule
2692   }%
2693 \def\beamer@stend{\end{minipage}}
2694
2695

```

## 23 File beamerbasenavigation-xetex-bidi.def

```

2696 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for beam
2697 \def\slideentry#1#2#3#4#5#6{%
2698   %section number, subsection number, slide number, first/last frame, page number, part numb
2699   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2700     \ifbeamer@compress%
2701       \advance\beamer@xpos by1\relax%
2702     \else%
2703       \ifnum#2=0%
2704         \beamer@ypos@offset=1\relax%
2705       \fi
2706       \beamer@xpos=#3\relax%
2707       \beamer@ypos=#2\relax%
2708       \advance\beamer@ypos by \beamer@ypos@offset\relax
2709     \fi%
2710   \hbox to Opt{%
2711     \beamer@tempdim=-\beamer@vboxoffset%
2712     \advance\beamer@tempdim by-\beamer@boxsize%
2713     \multiply\beamer@tempdim by\beamer@ypos%
2714     \advance\beamer@tempdim by -.05cm%
2715     \raise\beamer@tempdim\hbox{%
2716       \beamer@tempdim=\beamer@boxsize%
2717       \multiply\beamer@tempdim by\beamer@xpos%
2718       \advance\beamer@tempdim by -\beamer@boxsize%
2719       \advance\beamer@tempdim by 1pt%
2720       \kern\beamer@tempdim
2721       \global\beamer@section@min@dim\beamer@tempdim
2722       \hbox{\beamer@link(#4){%
2723         \usebeamerfont{mini frame}%
2724         \ifnum\c@section=#1%
2725           \ifnum\c@subsection=#2%
2726             \usebeamercolor[fg]{mini frame}%
2727             \ifnum\c@subsectionslide=#3%
2728               \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2729             \else%
2730               \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhil
2731             \fi%
2732           \else%
2733             \usebeamercolor{mini frame}%
2734             %\color{fg!50!bg}%
2735             \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2736           \fi%
2737         \else%
2738           \usebeamercolor{mini frame}%
2739           %\color{fg!50!bg}%
2740           \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%

```



```

2741         \fi%
2742     }}}} \hskip-10cm plus 1fil%
2743 } \fi \fi%
2744 \else%
2745 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2746 \fi \ignorespaces
2747 }
2748
2749 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2750 {
2751     \pgfpathqmoveto{3.5bp}{0.5bp}
2752     \pgfpathqlineto{1.5bp}{2bp}
2753     \pgfpathqlineto{3.5bp}{3.5bp}
2754     \pgfusepathqfill
2755 }
2756
2757 \def\insertgotosymbol{%
2758 \if@RTL
2759     \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2760         \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2761     \end{pgfpicture}%
2762 \else
2763     \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2764         \pgfuseobject{beamer@gotosymbol}%
2765     \end{pgfpicture}%
2766 \fi
2767 }
2768
2769 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2770 {
2771     \pgfpathqmoveto{5.5bp}{0.5bp}
2772     \pgfpathqlineto{3.5bp}{2bp}
2773     \pgfpathqlineto{5.5bp}{3.5bp}
2774     \pgfpathqmoveto{3.5bp}{0.5bp}
2775     \pgfpathqlineto{1.5bp}{2bp}
2776     \pgfpathqlineto{3.5bp}{3.5bp}
2777     \pgfusepathqfill
2778 }
2779
2780 \def\insertskipsymbol{%
2781 \if@RTL
2782     \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2783         \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2784     \end{pgfpicture}%
2785 \else
2786     \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2787         \pgfuseobject{beamer@skipsymbol}%
2788     \end{pgfpicture}%
2789 \fi
2790 }
2791
2792 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2793 {
2794     \pgfpathqmoveto{1.5bp}{0.5bp}

```



```

2795 \pgfpathqlineto{3.5bp}{2bp}
2796 \pgfpathqlineto{1.5bp}{3.5bp}
2797 \pgfusepathqfill
2798 }
2799
2800 \def\insertreturnsymbol{%
2801 \if@RTL
2802 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2803 \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2804 \end{pgfpicture}%
2805 \else
2806 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2807 \pgfuseobject{beamerreturnsymbol}%
2808 \end{pgfpicture}%
2809 \fi
2810 }
2811
2812

```

## 24 File beamerbaseoverlay-xetex-bidi.def

```

2813 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2814 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2815
2816

```

## 25 File beamerinnerthemedefault-xetex-bidi.def

```

2817 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2818 \newcommand*{\bidi@beamer@leftskip}{%
2819 \if@RTL
2820 \rightskip
2821 \else
2822 \leftskip
2823 \fi
2824 }
2825
2826 \newcommand*{\bidi@beamer@rightskip}{%
2827 \if@RTL
2828 \leftskip
2829 \else
2830 \rightskip
2831 \fi
2832 }
2833
2834 \bidi@csundef{beamer@tmpop@subsection in toc@default}
2835
2836 \bidi@csundef{beamer@tmpop@subsubsection in toc@default}
2837
2838 \defbeamertemplate*{subsection in toc}{default}
2839 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2840
2841 \defbeamertemplate*{subsubsection in toc}{default}
2842 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%

```



```

2843 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2844
2845 \newcommand*{\bidi@beamer@blacktriangle}{%
2846   \if@RTL
2847     $\blacktriangleleft$%
2848   \else
2849     $\blacktriangleright$%
2850   \fi
2851 }
2852
2853 \bidi@csundef{beamer@@tmpop@itemize item@default}
2854
2855 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2856
2857 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2858
2859 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\d
2860 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2861 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2862
2863 \bidi@undef\beamer@@tmpop@footnote@default
2864
2865 \defbeamertemplate*{footnote}{default}
2866 {
2867   \parindent 1em\noindent%
2868   \bidi@beamer@ragged
2869   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2870 }
2871
2872 \defbeamertemplate*{RTLfootnote}{default}
2873 {
2874   \parindent 1em\noindent%
2875   \raggedleft
2876   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2877 }
2878
2879 \defbeamertemplate*{LTRfootnote}{default}
2880 {
2881   \parindent 1em\noindent%
2882   \raggedright
2883   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2884 }
2885
2886 \bidi@undef\beamer@@tmpop@caption@default
2887
2888 \defbeamertemplate*{caption}{default}
2889 {%
2890   \bidi@beamer@ragged
2891   {%
2892     \leavevmode
2893     \usebeamerfont[fg]{caption name}%
2894     \usebeamerfont*{caption name}%
2895     \insertcaptionname
2896     \usebeamertemplate{caption label separator}%

```



```

2897 }%
2898 \insertcaption\par
2899 }
2900
2901 \bidi@csundef{beamer@@tmpop@block begin@default}
2902
2903 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2904
2905 \bidi@csundef{beamer@@tmpop@block example begin@default}
2906
2907 \defbeamerteremplate*{block begin}{default}
2908 {
2909   \par\vskip\medskipamount%
2910   \begin{beamercolorbox}[colsep*=.75ex]{block title}
2911     \usebeamerfont*{block title}\insertblocktitle%
2912   \end{beamercolorbox}%
2913   {\parskip0pt\par}%
2914   \ifbeamercoloreempty[bg]{block title}
2915   {}
2916   {\ifbeamercoloreempty[bg]{block body}{\nointerlineskip\vskip-0.5pt}}%
2917   \usebeamerfont{block body}%
2918   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2919     \ifbeamercoloreempty[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}
2920   }
2921
2922 \defbeamerteremplate*{block alerted begin}{default}
2923 {
2924   \par\vskip\medskipamount%
2925   \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2926     \usebeamerfont*{block title alerted}\insertblocktitle%
2927   \end{beamercolorbox}%
2928   {\parskip0pt\par}%
2929   \ifbeamercoloreempty[bg]{block title alerted}
2930   {}
2931   {\ifbeamercoloreempty[bg]{block body alerted}{\nointerlineskip\vskip-0.5pt}}%
2932   \usebeamerfont{block body alerted}%
2933   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2934     \ifbeamercoloreempty[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}
2935   }
2936
2937 \defbeamerteremplate*{block example begin}{default}
2938 {
2939   \par\vskip\medskipamount%
2940   \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2941     \usebeamerfont*{block title example}\insertblocktitle%
2942   \end{beamercolorbox}%
2943   {\parskip0pt\par}%
2944   \ifbeamercoloreempty[bg]{block title example}
2945   {}
2946   {\ifbeamercoloreempty[bg]{block body example}{\nointerlineskip\vskip-0.5pt}}%
2947   \usebeamerfont{block body example}%
2948   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2949     \ifbeamercoloreempty[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}
2950   }

```



```

2951
2952 \bidi@csundef{beamer@@tmpop@abstract begin@default}
2953
2954 \defbeamer@template*{abstract begin}{default}
2955 {\beamer@colorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fil}
2956
2957 \bidi@undef\beamer@@tmpop@button@default
2958
2959 \defbeamer@template*{button}{default}
2960 {%
2961   \setbox\beamer@tempbox=\hbox{\insertbuttontext}}%
2962   \ht\beamer@tempbox=6pt%
2963   \dp\beamer@tempbox=0pt%
2964   \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2965   \beamer@tempdim=\wd\beamer@tempbox%
2966   \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2967   \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2968   \if@RTL
2969     \kern4pt%
2970     \box\beamer@tempbox%
2971     \hskip-\beamer@tempdim%
2972   \fi
2973   \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2974     \color{bg}
2975     \pgfsetlinewidth{0.8pt}
2976     \pgfpathqmoveto{0pt}{0pt}
2977     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2978     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2979     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2980     \pgfpathcurveto%
2981       {\pgfpoint{\the\beamer@dima}{8pt}}%
2982       {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2983       {\pgfpoint{\the\beamer@dimb}{4pt}}
2984     \pgfpathcurveto%
2985       {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2986       {\pgfpoint{\the\beamer@dima}{0pt}}%
2987       {\pgfpoint{\the\beamer@tempdim}{0pt}}
2988     \pgfpathclose
2989     \pgfusepathqfill
2990     \colorlet{bg}{parent.bg}
2991     \usebeamercolor[fg]{button border}
2992     \pgfpathqmoveto{0pt}{0pt}
2993     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2994     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2995     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2996     \pgfpathcurveto%
2997       {\pgfpoint{\the\beamer@dima}{8pt}}%
2998       {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2999       {\pgfpoint{\the\beamer@dimb}{4pt}}
3000     \pgfpathcurveto%
3001       {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
3002       {\pgfpoint{\the\beamer@dima}{0pt}}%
3003       {\pgfpoint{\the\beamer@tempdim}{0pt}}
3004     \pgfpathclose

```



```

3005 \pgfusepathqstroke
3006 \end{pgfpicture}%
3007 \if@RTL
3008 \else
3009 \hskip-\beamer@tempdim%
3010 \box\beamer@tempbox%
3011 \kern4pt%
3012 \fi
3013 }
3014
3015

```

## 26 File beamerinnerthemecircles-xetex-bidi.def

```

3016 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for beamer]
3017 \setbeamertemplate{sections/subsections in toc}[circle]
3018

```

## 27 File beamerinnerthemefocus-xetex-bidi.def

```

3019 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for beamer]
3020 \setbeamertemplate{section in toc}[square]
3021 \setbeamertemplate{subsection in toc}[square]
3022
3023 \setbeamertemplate{itemize items}[square]
3024 \setbeamertemplate{itemize subitem}[triangle]
3025
3026 \bidi@csundef{beamer@@tmpop@title page@focus}
3027
3028 \defbeamertemplate*{title page}{focus}{%
3029   {%
3030     \usebeamercolor{frametitle}\colorlet{focus@@temp}{bg}%
3031     \begin{tikzpicture}[overlay, remember picture]
3032       \fill[color=focus@@temp] (current page.north west) rectangle ([shift = {(0, -0.4}
3033     \end{tikzpicture}
3034   }
3035
3036   \vspace{-1.65\baselineskip}
3037   \begin{minipage}[b] [0.35\paperheight]{\textwidth}
3038     \vspace{\baselineskip}
3039     \usebeamerfont{title}
3040     \usebeamercolor[fg]{frametitle}
3041     \inserttitle
3042   \end{minipage}
3043
3044   \begin{minipage}[t] [0.1\paperheight]{\textwidth}
3045     \usebeamerfont{subtitle}
3046     \usebeamercolor[fg]{frametitle}
3047     \insertsubtitle
3048   \end{minipage}
3049
3050   % Set the title graphic in a zero-height box, so that
3051   % the position of other elements is not affected.
3052   {\vfuzz=9999pt\vbox to 0pt {

```



```

3053     \if@RTL
3054         \raggedright
3055     \else
3056         \raggedleft
3057     \fi
3058     \inserttitlegraphic
3059 }
3060
3061 \begin{minipage}[t]{\textwidth}
3062     \usebeamerfont{author}
3063     \insertauthor
3064 \end{minipage}
3065
3066 \vspace*{\baselineskip}
3067 \begin{minipage}[t]{\textwidth}
3068     \usebeamerfont{institute}
3069     \insertinstitute
3070 \end{minipage}
3071
3072 \vspace*{\baselineskip}
3073 \begin{minipage}[t]{\textwidth}
3074     \usebeamerfont{date}
3075     \insertdate
3076 \end{minipage}
3077
3078 \vspace*{0pt plus 100fill}
3079
3080 \addtocounter{framenum}{-1}
3081 \addtocounter{realframenum}{-1}
3082 }
3083
3084
3085

```

## 28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3086 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3087 \AtBeginDocument{%
3088     \setbeamsize{sidebar width left=.25\paperwidth}%
3089 }
3090
3091 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
3092
3093 \bidi@csundef{beamer@@tmpop@title page@inmargin}
3094
3095 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
3096
3097 \bidi@csundef{beamer@@tmpop@block end@inmargin}
3098
3099 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
3100
3101 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
3102
3103 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}

```





```

3104
3105 \bidi\csundef{beamer@@tmpop@block example end@inmargin}
3106
3107 \defbeamertertemplate*{section in toc}{inmargin}
3108 {\leavevmode
3109   \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
3110
3111 \defbeamertertemplate*{title page}{inmargin}
3112 {
3113   \begin{block}{\inserttitleindicator}
3114     \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
3115     \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
3116   \end{block}
3117   \vfill
3118   \ifx\insertauthor\@empty
3119   \else
3120     \begin{block}{\insertauthorindicator}
3121       \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
3122     \end{block}
3123   \fi
3124   \ifx\insertinstitute\@empty
3125   \else
3126     \begin{block}{\insertinstituteindicator}
3127       \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
3128     \end{block}
3129   \fi
3130   \ifx\insertdate\@empty
3131   \else
3132     \begin{block}{\insertdateindicator}
3133       \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
3134     \end{block}
3135   \fi
3136 }
3137
3138 \defbeamertertemplate*{block begin}{inmargin}
3139 {
3140   \par\vskip\medskipamount%
3141   \leavevmode%
3142   \beamer@putleft{\normalfont\usebeamercolor[fg]{block title}\usebeamerfont*{block title}\i
3143   \beginL\beamer@putright
3144   %\usebeamercolor[fg]{block body}% to be done!
3145 }
3146
3147 \defbeamertertemplate*{block end}{inmargin}
3148 {\endbeamer@putright\endL\vskip\smallskipamount}
3149
3150 \defbeamertertemplate*{block alerted begin}{inmargin}
3151 {
3152   \par\vskip\medskipamount%
3153   \leavevmode%
3154   \beamer@putleft{\normalfont\usebeamercolor[fg]{block title alerted}\usebeamerfont*{block
3155   \beginL\beamer@putright
3156   %\usebeamercolor[fg]{block body alerted}% to be done!
3157 }

```



```

3158
3159 \defbeamertemplate*{block alerted end}{inmargin}
3160 {\endbeamer@putright\endL\vskip\smallskipamount}
3161
3162 \defbeamertemplate*{block example begin}{inmargin}
3163 {
3164   \par\vskip\medskipamount%
3165   \leavevmode%
3166   \beamer@putleft{\normalfont{\usebeamerfont{fg}{block title example}}\usebeamerfont*{block
3167   \beginL\beamer@putright
3168   %\usebeamerfont{fg}{block body example}% to be done
3169 }
3170
3171 \defbeamertemplate*{block example end}{inmargin}
3172 {\endbeamer@putright\endL\vskip\smallskipamount}
3173
3174 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3175   \setbeamertemplate{section in toc}[inmargin]%
3176   \setbeamertemplate{subsection in toc}[inmargin]%
3177   \setbeamertemplate{subsubsection in toc}[inmargin]%
3178 }
3179
3180

```

## 29 File beamerinnerthememetropolis-xetex-bidi.def

```

3181 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3182 \setbeamertemplate{title}{
3183   \bidi@beamer@ragged%
3184   \linespread{1.0}%
3185   \inserttitle%
3186   \par%
3187   \vspace*{0.5em}
3188 }
3189
3190 \setbeamertemplate{subtitle}{
3191   \bidi@beamer@ragged%
3192   \insertsubtitle%
3193   \par%
3194   \vspace*{0.5em}
3195 }
3196
3197 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3198
3199 \defbeamertemplate{section page}{progressbar}{
3200   \centering
3201   \begin{minipage}{22em}
3202     \bidi@beamer@ragged
3203     \usebeamerfont{fg}{section title}
3204     \usebeamerfont{section title}
3205     \insertsectionhead\[-1ex]
3206     \usebeamertemplate*{progress bar in section page}
3207     \par
3208     \ifx\insertsubsectionhead\@empty\else%

```



```

3209     \usebeamercolor[fg]{subsection title}%
3210     \usebeamerfont{subsection title}%
3211     \insertsubsectionhead
3212     \fi
3213 \end{minipage}
3214 \par
3215 \vspace{\baselineskip}
3216 }
3217
3218 \setbeamertemplate{progress bar in section page}{
3219   \setlength{\metropolis@progressonsectionpage}{%
3220     \textwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3221   }%
3222   \begin{tikzpicture}
3223     \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3224 \if@RTLmain
3225     \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3226 \else
3227     \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage@linewidth);
3228 \fi
3229   \end{tikzpicture}%
3230 }
3231
3232 \renewcommand{\metropolis@block}[1]{
3233   \par\vskip\medskipamount%
3234   \setlength{\parskip}{0pt}
3235   \ifbeamercolorempty[bg]{block title#1}{%
3236     \if@RTL
3237       \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3238     \else
3239       \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3240     \fi
3241   }{%
3242     \ifbeamercolorempty[bg]{block title}{%
3243       \if@RTL
3244         \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3245       \else
3246         \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3247       \fi
3248     }%
3249   }%
3250   \if@RTL
3251     \begin{beamercolorbox}[
3252       sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3253       rightskip=\metropolis@blockadjust,
3254       leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3255     ]{block title#1}%
3256   \else
3257     \begin{beamercolorbox}[
3258       sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3259       leftskip=\metropolis@blockadjust,
3260       rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3261     ]{block title#1}%
3262   \fi

```



```

3263 }}%
3264 \usebeamerfont*{block title#1}%
3265 \metropolis@strut%
3266 \insertblocktitle%
3267 \metropolis@strut%
3268 \end{beamercolorbox}%
3269 \nointerlineskip%
3270 \ifbeamercoloreempty[bg]{block body#1}{%
3271 \begin{beamercolorbox}[vmode]{block body#1}}{
3272 \ifbeamercoloreempty[bg]{block body}{%
3273 \begin{beamercolorbox}[vmode]{block body#1}%
3274 }}%
3275 \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3276 \vspace{-\metropolis@parskip}
3277 }}%
3278 \usebeamerfont{block body#1}%
3279 \setlength{\parskip}{\metropolis@parskip}%
3280 }
3281
3282
3283 \setbeamertemplate{footnote}{%
3284 \parindent 0em\noindent%
3285 \bidi@beamer@ragged
3286 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3287 }
3288
3289 \setbeamertemplate{RTLfootnote}{%
3290 \parindent 0em\noindent%
3291 \raggedleft
3292 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3293 }
3294
3295 \setbeamertemplate{LTRfootnote}{%
3296 \parindent 0em\noindent%
3297 \raggedright
3298 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3299 }
3300
3301 \setbeamertemplate{itemize items}{\textbullet}
3302
3303 \setbeamertemplate{section page}[progressbar]
3304
3305

```

## 30 File beamerinnerthemerectangles-xetex-bidi.def

```

3306 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for
3307 \setbeamertemplate{sections/subsections in toc}[square]
3308 \setbeamertemplate{items}[square]
3309

```

## 31 File beamerinnerthemrounded-xetex-bidi.def

```

3310 \ProvidesFile{beamerinnerthemrounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b

```



```

3311 \setbeamertemplate{blocks}[rounded][shadow=\beamer@themrounded@shadow]
3312 \setbeamertemplate{items}[ball]
3313 \setbeamertemplate{sections/subsections in toc}[ball]
3314

```

## 32 File beamerouterthemedefault-xetex-bidi.def

```

3315 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for b
3316 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by 1.
3317
3318 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightski
3319
3320 \AtBeginDocument{%
3321   \if@RTLmain
3322     \setbeamertemplate{frametitle}[default][right]
3323   \fi
3324 }
3325
3326 \bidi@csundef{beamer@@tmpop@note page@default}
3327
3328 \newcommand*{\bidi@beamer@today}{%
3329 \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3330
3331 \defbeamertemplate*{note page}{default}
3332 {%
3333   {%
3334     \scriptsize
3335     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3336     \ifbeamercoloreempty[bg]{note title}{}{%
3337       \insertvrule{.25\paperheight}{note title.bg}%
3338       \vskip-.25\paperheight%
3339       \nointerlineskip%
3340     }%
3341     \vbox{
3342       \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3343       \vskip-0.25\paperheight%
3344       \nointerlineskip
3345       \if@RTL
3346         \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3347           \begin{pgflowlevelscope}{\pgftransformrotate{-90}}
3348             {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3349             \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3350           \end{pgflowlevelscope}
3351         \end{pgfpicture}%
3352       \else
3353         \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3354           \begin{pgflowlevelscope}{\pgftransformrotate{90}}
3355             {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3356             \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3357           \end{pgflowlevelscope}
3358         \end{pgfpicture}%
3359       \fi}
3360     \nointerlineskip
3361     \vbox to .25\paperheight{\vskip0.5em

```



```

3362 \if@RTL
3363 \moveright0.25\textwidth
3364 \fi
3365 \hbox{\insertshorttitle[width=0.75\textwidth]}%
3366 \setbox\beamer@tempbox=\hbox{\insertsection}%
3367
3368 \if@RTL
3369 \moveright\dimexpr0.29\textwidth-14pt\relax
3370 \fi
3371 \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3372 width0.4pt height7pt\vrule width 9pt
3373 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}\
3374 \if@RTL\endR\fi}%
3375 \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3376
3377 \if@RTL
3378 \moveright\dimexpr0.29\textwidth-27.4pt\relax
3379 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vrule
3380 width0.4pt height7pt\vrule width 9pt
3381 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}\
3382 \if@RTL\endR\fi}%
3383 \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3384
3385 \if@RTL
3386 \moveright\dimexpr0.33\textwidth-40.8pt\relax
3387 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vrule
3388 width0.4pt height7pt\vrule width 9pt
3389 height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi%
3390 \if@RTL\endR\fi}%
3391 \vfil}%
3392 }%
3393 \ifbeamercolorempy[bg]{note page}{-}{%
3394 \nointerlineskip%
3395 \insertvrule{.75\paperheight}{note page.bg}%
3396 \vskip-.75\paperheight%
3397 }%
3398 \vskip.25em
3399 \nointerlineskip
3400 \insertnote
3401 }
3402
3403
3404

```

### 33 File beamerouterthemefocus-xetex-bidi.def

```

3405 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3406 \bidi@undef\beamer@tmpop@footline@progressbar
3407
3408 \defbeamer*{footline}{progressbar}{%
3409 % If not appendix.
3410 \ifnum\mainend<0% From package appendixnumberbeamer.
3411 %
3412 \settowidth{\focus@pbar@leftoffset}{1}%

```



```

3413 \addtolength{\focus@pbar@leftoffset}{1.5em}%
3414 %
3415 \ifx\beamer@focus@totalframenumbering\no%
3416 \settoheight{\focus@pbar@rightoffset}{}%
3417 \addtolength{\focus@pbar@rightoffset}{0.5em}%
3418 \else%
3419 \settoheight{\focus@pbar@rightoffset}{\inserttotalframenumber}%
3420 \addtolength{\focus@pbar@rightoffset}{1.5em}%
3421 \fi%
3422 %
3423 % If not title page.
3424 \ifnum\value{realframenumber}>0%
3425 \ifnum\value{framenumber}<\inserttotalframenumber%
3426 \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footline}
3427 \pgfmathsetmacro{\focus@pbar@progress}%
3428 {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inserttotalframenumber-\value{framenumber})/\value{realframenumber}}
3429
3430 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3431 \if@RTLmain
3432 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoffset,\the\focus@pbar@height);
3433 \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle ++(0,\the\focus@pbar@height) node[anchor=west,
3434 ++(0,{-0.5*\the\focus@pbar@height})];
3435 \else
3436 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\focus@pbar@height);
3437 \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=east,
3438 ++(0,{-0.5*\the\focus@pbar@height})];
3439 \fi
3440 \ifx\beamer@focus@totalframenumbering\no%
3441 \else%
3442 \if@RTLmain
3443 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=east,
3444 ++(0,{-0.5*\the\focus@pbar@height})];
3445 \else
3446 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=west,
3447 ++(0,{-0.5*\the\focus@pbar@height})];
3448 \fi
3449 \fi%
3450 \end{tikzpicture}%
3451 \else%
3452 \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3453 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3454 \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3455 \if@RTLmain
3456 \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\value{framenumber}};
3457 \else
3458 \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\value{framenumber}};
3459 \fi
3460 \ifx\beamer@focus@totalframenumbering\no%
3461 \else%
3462 \if@RTLmain
3463 \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\value{framenumber}};
3464 \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\value{framenumber}};
3465 \else
3466 \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\value{framenumber}};

```



```

3467 \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rig
3468 \fi
3469 \fi%
3470 \end{tikzpicture}}%
3471 \fi%
3472 \fi%
3473 \fi%
3474 }
3475
3476

```

### 34 File beamerouterthemeinfolines-xetex-bidi.def

```

3477 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for
3478 \bidi\csundef{beamer@tmpop@footline@infolines theme}
3479
3480 \defbeamertemplate*{footline}{infolines theme}
3481 {%
3482 \leavevmode%
3483 \hbox{%
3484 \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
3485 \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\b
3486 \end{beamercolorbox}}%
3487 \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
3488 \usebeamerfont{title in head/foot}\insertshorttitle
3489 \end{beamercolorbox}%
3490 \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,s
3491 \hfill%
3492 \usebeamerfont{date in head/foot}%
3493 \insertshortdate{}%
3494 \hfill%
3495 \bgroup
3496 \usebeamercolor[fg]{page number in head/foot}%
3497 \usebeamerfont{page number in head/foot}%
3498 \usebeamertemplate{page number in head/foot}%
3499 \egroup
3500 \end{beamercolorbox}}}%
3501 \vskip0pt%
3502 }
3503
3504 \bidi\csundef{beamer@tmpop@headline@infolines theme}
3505
3506 \defbeamertemplate*{headline}{infolines theme}
3507 {%
3508 \leavevmode%
3509 \hbox{%
3510 \if@RTL
3511 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3512 \else
3513 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3514 \fi
3515 \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3516 \end{beamercolorbox}%
3517 \if@RTL

```





```

3518 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}
3519 \else
3520 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3521 \fi
3522 \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
3523 \end{beamercolorbox}}%
3524 \vskip0pt%
3525 }
3526
3527 \bidi@AfterFile{beamerouterthememsplit-xetex-bidi.def}{%
3528 \setbeamertemplate{footline}[infolines theme]%
3529 }
3530

```

### 35 File beamerouterthememetropolis-xetex-bidi.def

```

3531 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3532 \setbeamertemplate{progress bar in head/foot}{
3533 \nointerlineskip
3534 \setlength{\metropolis@progressinheadfoot}{%
3535 \paperwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3536 }%
3537 \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3538 \begin{tikzpicture}
3539 \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3540 \if@RTLmain
3541 \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \metr
3542 \else
3543 \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinheadf
3544 \fi
3545 \end{tikzpicture}%
3546 \end{beamercolorbox}
3547 }
3548
3549 \AtBeginDocument{%
3550 \setbeamertemplate{frametitle}[plain]%
3551 }
3552
3553

```

### 36 File beamerouterthememiniframes-xetex-bidi.def

```

3554 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3555 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3556
3557 \defbeamertemplate*{headline}{miniframes theme}
3558 {%
3559 \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3560 \end{beamercolorbox}
3561 \begin{beamercolorbox}{section in head/foot}
3562 \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3563 \end{beamercolorbox}%
3564 \ifbeamer@theme@subsection%
3565 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}

```



```

3566 \end{beamercolorbox}
3567 \if@RTL
3568 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3569 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3570 \else
3571 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3572 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3573 \fi
3574 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3575 \end{beamercolorbox}%
3576 \fi%
3577 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3578 \end{beamercolorbox}
3579 }
3580
3581

```

### 37 File beamerouterthemesidebar-xetex-bidi.def

```

3582 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b
3583 \bidi@csundef{beamer@@tmpop@frametitle@sidebar theme}
3584
3585 \bidi@csundef{beamer@@tmpop@headline@sidebar theme}
3586
3587 \bidi@csundef{beamer@@tmpop@sidebar left@sidebar theme}
3588
3589 \bidi@csundef{beamer@@tmpop@sidebar right@sidebar theme}
3590
3591 \ifdim\beamer@headheight>0pt
3592
3593 \defbeamertemplate*{frametitle}{sidebar theme}
3594 {%
3595 \nointerlineskip%
3596 \ifbeamer@plainframe%
3597 \hbox{\usebeamercolor[bg]{frametitle}%
3598 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3599 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\beamer@
3600 \nointerlineskip%
3601 \fi%
3602 \vskip-\beamer@headheight%
3603 \vbox to \beamer@headheight{%
3604 \vfil
3605 \bidi@beamer@leftskip=-\beamer@leftmargin%
3606 \advance\bidi@beamer@leftskip by0.3cm%
3607 \bidi@beamer@rightskip=-\beamer@rightmargin%
3608 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3609 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}
3610 \ifx\insertframesubtitle\@empty\else%
3611 {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesu
3612 \fi%
3613 \vbox{}}%
3614 \vskip-1em%
3615 \vfil
3616 }%

```



```

3617 }
3618
3619 \AtBeginDocument{%
3620   \setbeamertemplate{frametitle}[sidebar theme]%
3621 }
3622
3623 \defbeamertemplate*{headline}{sidebar theme}
3624 {%
3625   \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3626     \ifx\beamer@sidebarside\beamer@lefttext%
3627       \else%
3628         \hfill%
3629       \fi%
3630     \ifdim\beamer@sidebarwidth>0pt%
3631       \bgroup
3632       \usebeamercolor[bg]{logo}%
3633       \if@RTLmain
3634       \else
3635         \vrule width\beamer@sidebarwidth height \beamer@headheight%
3636         \hskip-\beamer@sidebarwidth%
3637       \fi
3638       \hbox to \beamer@sidebarwidth{\hss\vbox to
3639         \beamer@headheight{\vss\hbox{{\color{fg}\insertlogo}}\vss}\hss}%
3640       \if@RTLmain
3641         \hskip-\beamer@sidebarwidth%
3642         \vrule width\beamer@sidebarwidth height \beamer@headheight%
3643       \fi
3644       \egroup
3645     \else%
3646       \vrule width0pt height \beamer@headheight%
3647     \fi%
3648   \end{beamercolorbox}
3649 }
3650 \fi
3651
3652 \def\beamer@sidebarformat#1#2#3{%
3653   \if@RTL
3654     \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#
3655   \else
3656     \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#
3657   \fi
3658     \vbox{}%
3659     #3\par%
3660     \vbox{}%
3661     \vskip-1.5ex%
3662   \end{beamercolorbox}
3663 }
3664
3665 \ifdim\beamer@sidebarwidth>0pt
3666
3667 \AtBeginDocument{%
3668   \setbeamersize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3669 }
3670

```



```

3671 \defbeamertemplate*{sidebar \beamer@sidebarside}{sidebar theme}
3672 {
3673   \beamer@tempdim=\beamer@sidebarwidth%
3674   \advance\beamer@tempdim by -6pt%
3675   {\usebeamerfont{title in sidebar}%
3676     \vskip1.5em%
3677     \hskip3pt%
3678     \bgroup
3679     \usebeamercolor[fg]{title in sidebar}%
3680     \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3681     \vskip1.25em%
3682   }%
3683   {%
3684     \hskip3pt%
3685     \bgroup
3686     \usebeamercolor[fg]{author in sidebar}%
3687     \usebeamerfont{author in sidebar}%
3688     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3689     \vskip1.25em%
3690   }%
3691   \insertverticalnavigation{\beamer@sidebarwidth}%
3692   \vfill
3693   \ifx\beamer@sidebarside\beamer@lefttext%
3694   \else%
3695     \usebeamercolor{normal text}%
3696     \llap{\usebeamertemplate***{navigation symbols}\hskip0.1cm}%
3697     \vskip2pt%
3698   \fi%
3699 }%
3700 \fi
3701

```

### 38 File beamerouterthemesplit-xetex-bidi.def

```

3702 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for bea
3703 \bidi@csundef{beamer@tmpop@footline@split theme}
3704
3705 \defbeamertemplate*{footline}{split theme}
3706 {%
3707   \leavevmode%
3708   \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
3709 \else
3710 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
3711 \fi
3712   \usebeamerfont{author in head/foot}\insertshortauthor
3713   \end{beamercolorbox}%
3714   \if@RTL
3715     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3716 \else
3717     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
3718 \fi
3719     \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor[
3720     \end{beamercolorbox}}%
3721     \vskip0pt%

```



```

3722 }
3723
3724

```

### 39 File beamerouterthemeshadow-xetex-bidi.def

```

3725 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for be
3726 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitlesh
3727   color(0pt)=(frametitle right.bg);
3728   color(\paperwidth)=(frametitle.bg)
3729 }
3730
3731 \newcommand*{\bidi@beamer@frametitlesshade}{%
3732   \if@RTLmain
3733     \pgfuses shading{bidi@beamer@RTL@frametitlesshade}%
3734   \else
3735     \pgfuses shading{beamer@frametitlesshade}%
3736   \fi
3737 }
3738
3739 \bidi@csundef{beamer@tmpop@frametitle@shadow theme}
3740
3741 \defbeamertemplate*{frametitle}{shadow theme}
3742 {%
3743   \nointerlineskip%
3744   \vskip-2pt%
3745   \hbox{\leavevmode
3746     \advance\beamer@leftmargin by -12bp%
3747     \advance\beamer@rightmargin by -12bp%
3748     \beamer@tempdim=\textwidth%
3749     \advance\beamer@tempdim by \beamer@leftmargin%
3750     \advance\beamer@tempdim by \beamer@rightmargin%
3751     \hskip-\Gm@lmargin\hbox{%
3752       \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3753         \vbox{}\vskip-.75ex%
3754         \bidi@beamer@leftskip0.3cm%
3755         \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3756         \bgroupp\usebeamerfont[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframe
3757         \ifx\insertframesubtitle\@empty\else%
3758           {\usebeamerfont*{framesubtitle}\usebeamerfont[fg]{framesubtitle}\insertframesu
3759         \fi%
3760         \nointerlineskip
3761         \vbox{}}%
3762       \end{minipage}}%
3763     \beamer@tempdim=\ht\beamer@tempbox%
3764     \advance\beamer@tempdim by 2pt%
3765     \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
3766       \begin{pgfscope}
3767         \pgfsetfillcolor{black}%
3768         \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3769         \pgfsetfading{beamer@topshadowmask}{}%
3770         \pgfusepath{fill}%
3771       \end{pgfscope}
3772     \begin{pgfscope}

```



```

3773         \usebeamercolor{frametitle right}%
3774         \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3775         \pgfusepath{clip}%
3776         \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3777         \end{pgfscope}
3778     \end{pgfpicture}
3779     \hskip-\paperwidth%
3780     \box\beamer@tempbox%
3781 }%
3782 \hskip-\Gm@rmargin%
3783 }%
3784 \vskip-2pt
3785 }
3786
3787 \AtBeginDocument{%
3788   \setbeamertemplate{frametitle}[shadow theme]%
3789 }
3790
3791

```

## 40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3792 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3793 \bidi@csundef{beamer@tmpop@headline@smoothbars theme}
3794
3795 \bidi@csundef{beamer@tmpop@frametitle@smoothbars theme}
3796
3797 \defbeamertemplate*{headline}{smoothbars theme}
3798 {%
3799   \pgfuses shading{beamer@barshade}%
3800   \vskip-0.05ex%
3801   \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3802   \begin{pgfpicture}
3803     \begin{pgfscope}%
3804       \ifbeamer@sb@subsection%
3805         \pgfsetfillcolor{subsection in head/foot.bg}%
3806       \else%
3807         \pgfsetfillcolor{section in head/foot.bg}%
3808       \fi%
3809       \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3810       \pgfsetfading{beamer@belowframetitlemask}{}%
3811       \pgfusepath{fill}%
3812     \end{pgfscope}%
3813   \end{pgfpicture}%
3814   \end{beamer colorbox}%
3815   \ifbeamer@sb@subsection%
3816     \vskip-9.75ex%
3817   \else%
3818     \vskip-6.85ex%
3819   \fi%
3820   \begin{beamer colorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3821     \insertnavigation{\paperwidth}
3822   \end{beamer colorbox}%
3823   \ifbeamer@sb@subsection%

```



```

3824 \if@RTL
3825   \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3826     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3827   \else
3828     \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3829       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3830   \fi
3831   \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3832   \end{beamercolorbox}%
3833 \fi%
3834 }%
3835
3836 \defbeamertemplate*{frametitle}{smoothbars theme}
3837 {%
3838   \nointerlineskip%
3839   \vskip-0.19ex%
3840   \usebeamerfont{headline}%
3841   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3842     \pgfuses shading{beamer@aboveframetitle}%
3843   \end{beamercolorbox}%
3844   \vskip-1ex%
3845   \nointerlineskip%
3846   \if@RTL
3847     \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3848   \else
3849     \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3850   \fi
3851     \vskip0.5ex%
3852     \usebeamerfont*{frametitle}\strut\insertframetitle%
3853     \ifx\insertframesubtitle\@empty%
3854       \strut\par%
3855     \else
3856       \par{\usebeamerfont*{framesubtitle}\usebeamercolor{fg}{framesubtitle}\strut\insertf
3857     \fi%
3858     \usebeamerfont{headline}%
3859     \vskip0.05ex%
3860   \end{beamercolorbox}%
3861   \nointerlineskip%
3862   \vskip-0.05ex%
3863   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3864   \begin{pgfpicture}
3865     \begin{pgfscope}%
3866       \pgfsetfillcolor{frametitle.bg}%
3867       \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3868       \pgfsetfading{beamer@belowframetitlemask}{}%
3869       \pgfusepath{fill}%
3870     \end{pgfscope}%
3871   \end{pgfpicture}%
3872   \end{beamercolorbox}%
3873 }
3874
3875 \AtBeginDocument{%
3876   \setbeamertemplate{frametitle}[smoothbars theme]%
3877 }

```



3878  
3879

## 41 File beamerouterthemesmoothtree-xetex-bidi.def

```
3880 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3881 \bidi@csundef{beamer@tmpop@headline@smoothtree theme}
3882
3883 \bidi@csundef{beamer@tmpop@frametitle@smoothtree theme}
3884
3885 \defbeamertemplate*{headline}{smoothtree theme}
3886 {%
3887   \pgfuses shading{beamer@treeshade}%
3888   \vskip-0.05ex%
3889   \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3890   \begin{pgf picture}
3891     \begin{pgf scope}%
3892       \pgfsetfillcolor{subsection in head/foot.bg}%
3893       \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3894       \pgfsetfading{beamer@belowframetitlemask}{}%
3895       \pgfusepath{fill}%
3896     \end{pgf scope}%
3897   \end{pgf picture}%
3898   \end{beamer colorbox}%
3899   \vskip-9.15ex%
3900   \if@RTL
3901     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3902       rightskip=.3cm, leftskip=.3cm plus1fil]{title in head/foot}
3903   \else
3904     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3905       leftskip=.3cm, rightskip=.3cm plus1fil]{title in head/foot}
3906     \fi
3907     \usebeamerfont{title in head/foot}\insertshorttitle
3908   \end{beamer colorbox}
3909   \if@RTL
3910     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3911       rightskip=.3cm, leftskip=.3cm plus1fil]{section in head/foot}
3912   \else
3913     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3914       leftskip=.3cm, rightskip=.3cm plus1fil]{section in head/foot}
3915     \fi
3916     \usebeamerfont{section in head/foot}%
3917     \hskip6pt\insertsectionhead
3918   \end{beamer colorbox}
3919   \if@RTL
3920     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3921       rightskip=.3cm, leftskip=.3cm plus1fil]{subsection in head/foot}
3922   \else
3923     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3924       leftskip=.3cm, rightskip=.3cm plus1fil]{subsection in head/foot}
3925     \fi
3926     \usebeamerfont{subsection in head/foot}%
3927     \hskip12pt\insertsubsectionhead
3928   \end{beamer colorbox}
```





```

3929 \vskip-0.4ex%
3930 }
3931
3932 \defbeamertertemplate*{frametitle}{smoothtree theme}
3933 {%
3934 \nointerlineskip%
3935 \vskip-0.05ex%
3936 \usebeamerfont{headline}%
3937 \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3938 \pgfuses shading{beamer@aboveframetitle}%
3939 \end{beamercolorbox}
3940 \nointerlineskip%
3941 \if@RTL
3942 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3943 \else
3944 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3945 \fi
3946 \vskip-1.2ex%
3947 \usebeamerfont*{frametitle}\strut\insertframetitle%
3948 \ifx\insertframesubtitle\@empty%
3949 \strut\par%
3950 \else
3951 \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}%
3952 \fi}%
3953 \usebeamerfont{headline}%
3954 \end{beamercolorbox}%
3955 \nointerlineskip
3956 \vskip-0.2ex%
3957 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3958 \begin{pgfpicture}
3959 \begin{pgfscope}%
3960 \pgfsetfillcolor{frametitle.bg}%
3961 \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3962 \pgfsetfading{beamer@belowframetitlemask}{}%
3963 \pgfusepath{fill}%
3964 \end{pgfscope}%
3965 \end{pgfpicture}%
3966 \end{beamercolorbox}%
3967 }
3968
3969
3970 \AtBeginDocument{%
3971 \setbeamertertemplate{frametitle}[smoothtree theme]%
3972 }
3973
3974

```

## 42 File beamerouterthemetree-xetex-bidi.def

```

3975 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
3976 \bidi@csundef{beamer@tmpop@headline@tree theme}
3977
3978 \defbeamertertemplate*{headline}{tree theme}
3979 {%

```



```

3980 \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3981 \end{beamercolorbox}
3982 \if@RTL
3983 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3984 rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3985 \else
3986 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3987 leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3988 \fi
3989 \usebeamerfont{title in head/foot}\insertshorttitle
3990 \end{beamercolorbox}
3991 \if@RTL
3992 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3993 rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3994 \else
3995 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3996 leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3997 \fi
3998 \usebeamerfont{section in head/foot}%
3999 \ifbeamer@tree@showhooks
4000 \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
4001 \ifdim\wd\beamer@tempbox>1pt%
4002 \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.
4003 \hskip1pt%
4004 \fi%
4005 \else%
4006 \hskip6pt%
4007 \fi%
4008 \insertsectionhead
4009 \end{beamercolorbox}
4010 \if@RTL
4011 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4012 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
4013 \else
4014 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4015 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
4016 \fi
4017 \usebeamerfont{subsection in head/foot}%
4018 \ifbeamer@tree@showhooks
4019 \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%
4020 \ifdim\wd\beamer@tempbox>1pt%
4021 \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height
4022 \hskip1pt%
4023 \fi%
4024 \else%
4025 \hskip12pt%
4026 \fi%
4027 \insertsubsectionhead
4028 \end{beamercolorbox}
4029 \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
4030 \end{beamercolorbox}
4031 }
4032
4033

```



## 43 File beamerthemeHannover-xetex-bidi.def

```
4034 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
4035 \AtBeginDocument{%
4036   \if@RTLmain
4037     \setbeamertemplate{frametitle}[default][left]%
4038   \else
4039     \setbeamertemplate{frametitle}[default][right]%
4040   \fi
4041 }
4042
4043
```

## 44 File beamerthemeSingapore-xetex-bidi.def

```
4044 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
4045 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{%
4046
4047 \beamertemplatedotitem
4048
4049 \AtBeginDocument{%
4050   \setbeamertemplate{frametitle}[default][center]%
4051 }
4052
4053
```

## 45 File bidi.sty

```
4054 \NeedsTeXFormat{LaTeX2e}
4055 \def\bididate{2025/09/10}
4056 \def\bidi@version{25.09.10}
4057 \def\bidi@releasename{Iran}
4058 \newcommand*{\bidi@releasename}{\bidi@releasename}
4059 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space (Release \bidi@releasename)\space
4060 Bidirectional typesetting in plain TeX and LaTeX]
4061 \newif\if@bidi@banner
4062 \newif\if@bidi@pdf@banner
4063 \newif\if@footdir@debug
4064 \newif\if@extrafootnote@features
4065 \newif\if@nonlatin
4066 \newif\if@bidi@pdfm@mark
4067 \newif\if@bidi@perpage@footnote
4068 \ExplSyntaxOn
4069 \msg_new:nnn {bidi} {cannot-use-engine}
4070 {
4071   Oops!~can~not~use~\c_sys_engine_str.\\\
4072   The~bidi~package~requires~XeTeX.
4073 }
4074 \sys_if_engine_xetex:F
4075 {
4076   \msg_fatal:nn {bidi} {cannot-use-engine}
4077 }
4078
4079 \keys_define:nn { bidi }
```



```

4080 {
4081   banner .choice: ,
4082   banner / on .code:n = \@bidi@bannertrue ,
4083   banner / off .code:n = \@bidi@bannerfalse ,
4084   banner .default:n = on
4085 }
4086 \keys_define:nn { bidi }
4087 {
4088   PDFbanner .choice: ,
4089   PDFbanner / on .code:n = \@bidi@pdfbannertrue ,
4090   PDFbanner / off .code:n = \@bidi@pdfbannerfalse ,
4091   PDFbanner .default:n = on
4092 }
4093 \keys_define:nn { bidi }
4094 {
4095   RTLdocument .choice: ,
4096   RTLdocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4097   RTLdocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4098   RTLdocument .default:n = on
4099 }
4100 \keys_define:nn { bidi }
4101 {
4102   rldocument .choice: ,
4103   rldocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4104   rldocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4105   rldocument .default:n = on
4106 }
4107 \keys_define:nn { bidi }
4108 {
4109   documentdirection .choice: ,
4110   documentdirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtrue} ,
4111   documentdirection / lefttoright .code:n = \AtEndOfPackage{\@RTLfalse}
4112 }
4113 \keys_define:nn { bidi }
4114 {
4115   tabledirection .choice: ,
4116   tabledirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtabtrue} ,
4117   tabledirection / lefttoright .code:n = \AtEndOfPackage{\@RTLtabfalse}
4118 }
4119 \keys_define:nn { bidi }
4120 {
4121   footnotedirection .choice: ,
4122   footnotedirection / righttoleft .code:n = \AtEndOfPackage{\@RTL@footnotetrue} ,
4123   footnotedirection / lefttoright .code:n = \AtEndOfPackage{\@RTL@footnotefalse}
4124 }
4125 \keys_define:nn { bidi }
4126 {
4127   debugfootnotedirection .choice: ,
4128   debugfootnotedirection / on .code:n = \footdir@debugtrue ,
4129   debugfootnotedirection / off .code:n = \footdir@debugfalse ,
4130   debugfootnotedirection .default:n = on
4131 }
4132 \keys_define:nn { bidi }
4133 {

```



```

4134     footnoterule .choice: ,
4135     footnoterule / automatic .code:n = \AtEndOfPackage{\autofootnoterule} ,
4136     footnoterule / left .code:n = \AtEndOfPackage{\leftfootnoterule} ,
4137     footnoterule / right .code:n = \AtEndOfPackage{\rightfootnoterule} ,
4138     footnoterule / split .code:n = \AtEndOfPackage{\SplitFootnoteRule} ,
4139     footnoterule / textwidth .code:n = \AtEndOfPackage{\textwidthfootnoterule}
4140 }
4141 \keys_define:nn { bidi }
4142 {
4143     extrafootnotefeatures .choice: ,
4144     extrafootnotefeatures / on .code:n = \@extrafootnotefeaturestrue ,
4145     extrafootnotefeatures / off .code:n = \@extrafootnotefeaturesfalse ,
4146     extrafootnotefeatures .default:n = on
4147 }
4148 \keys_define:nn { bidi }
4149 {
4150     script .choice: ,
4151     script / latin .code:n = \@nonlatinfalse ,
4152     script / nonlatin .code:n = \@nonlatintrue ,
4153     script .default:n = latin
4154 }
4155 \keys_define:nn { bidi }
4156 {
4157     DetectColumn .choice: ,
4158     DetectColumn / on .code:n =
4159         \def\bidi@firstcolumn@status@write{%
4160             \protected@write\@auxout{%
4161                 {\string\bidi@column@status
4162                     {1}}}
4163         \def\bidi@lastcolumn@status@write{%
4164             \protected@write\@auxout{%
4165                 {\string\bidi@column@status{2}}} ,
4166     DetectColumn / off .code:n =
4167         \let\bidi@firstcolumn@status@write\relax
4168         \let\bidi@lastcolumn@status@write\relax ,
4169     DetectColumn .default:n = on
4170 }
4171 \keys_define:nn { bidi }
4172 {
4173     logo .choice: ,
4174     logo / on .code:n = \AtEndOfPackage{\AtBeginDocument{\@bidi@inslogo}} ,
4175     logo / off .code:n = \let\@bidi@logo@\empty \let\@bidi@inslogo@\empty ,
4176     logo .default:n = on
4177 }
4178 \keys_define:nn { bidi }
4179 {
4180     pdfinfo .choice: ,
4181     pdfinfo / on .code:n = \@bidi@pdfm@marktrue ,
4182     pdfinfo / off .code:n = \@bidi@pdfm@markfalse ,
4183     pdfinfo .default:n = on
4184 }
4185 % The 'perpagefootnote' option is documented in UK TeX FAQ at
4186 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4187 \keys_define:nn { bidi }

```



```

4188 {
4189   perpagefootnote .choice: ,
4190   perpagefootnote / on .code:n = \@bidi@perpage@footnotetrue ,
4191   perpagefootnote / off .code:n = \@bidi@perpage@footnotefalse ,
4192   perpagefootnote .default:n = on
4193 }
4194 \keys_set:nn { bidi }
4195 {
4196   banner = on ,
4197   PDFbanner = on ,
4198   DetectColumn = off
4199 }
4200 }
4201 \ExplSyntaxOff
4202 \ProcessKeyOptions
4203 \edef\@bidi@info{*****~J%
4204 * ~J%
4205 * bidi package (Bidirectional typesetting with~J%
4206 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)~J%
4207 * ~J%
4208 * Description: A convenient interface for~J%
4209 * typesetting bidirectional texts in plain TeX~J%
4210 * and LaTeX. The package includes adaptations~J%
4211 * for use with many other commonly-used packages.~J%
4212 * ~J%
4213 * Copyright (c) 2007--2025 Vafa Khalighi~J%
4214 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%
4215 * ~J%
4216 * v\bidi@version\space (Release \bidi@releasename), \bidi@date~J%
4217 * ~J%
4218 * License: LaTeX Project Public License, version~J%
4219 * 1.3c or higher (your choice)~J%
4220 * ~J%
4221 * Location on CTAN: /macros/unicodetex/generic/bidi~J%
4222 * ~J%
4223 * Issue tracker: https://github.com/xepersian/bidi/issues~J%
4224 * ~J%
4225 * Primary author of bidi package: Vafa Khalighi.~J%
4226 * ~J%
4227 *****}
4228 \edef\bidi@everyjob{\the\everyjob}
4229 \if@bidi@banner
4230   \typeout{\@bidi@info}
4231   \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
4232 \fi
4233 \newcommand*{\bidi@version}{\ensuremath\bidi@version}
4234 \RequirePackage{bidiutils}
4235 \RequirePackage{zref-abspace}
4236 \RequirePackage{auxhook}
4237 \RequirePackage{ltxcmds}
4238 \eqnewif{\if@RTLmain}{\if@rlmain}
4239 \eqnewif{\if@RTL}{\if@rl}
4240 \newcommand*{\setlatin}{\@nonlatinfalse}
4241 \newcommand*{\setnonlatin}{\@nonlatintrue}

```



```

4242 \eqnewif{\if@RTLtab}{\if@tab@rl}
4243 \newif\if@hboxRconstruct
4244 \newif\if@bidi@pdfencrypt
4245 \newcommand*{\setRTLtable}{\@RTLtabtrue}
4246 \newcommand*{\setLTRtable}{\@RTLtabfalse}
4247 \newif\if@RTLmarginpar
4248 \newif\if@LTRmarginpar
4249 \newif\if@LTRbibitems
4250 \newif\if@RTLbibitems
4251 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4252 \newif\if@bidi@list@minipage@parbox
4253 \newif\if@bidi@list@minipage@parbox@not@nob
4254 \newcommand*{\@bidi@pdfcreator}{%
4255   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4256 }
4257 \newcommand*{\@bidi@pdfproducer}{%
4258   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4259 }
4260 \newcommand*{\@bidi@pdfcustomproperties}{%
4261   This is the bidi package, Version \@bidi@version\space (Release \@bidi@releasename),
4262   Released September 10, 2025.
4263 }
4264 \newcommand*{\@bidi@beamer@ragged}{%
4265   \@RTLmainfalse
4266   \AtBeginDocument{%
4267     \if@RTLmain\else
4268       \if@RTL\@RTLmaintrue%
4269       \else\@RTLmainfalse%
4270     \fi%
4271   \fi%
4272 }
4273 \let\n@xt=\
4274 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
4275 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4276 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
4277 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4278 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4279   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4280 \newinsert\@bidi@copyins@
4281 \skip\@bidi@copyins@=12\p@
4282 \dimen\@bidi@copyins@=40pc
4283 \count\@bidi@copyins@=1000
4284 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
4285 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
4286   \if@RTLmain
4287     \if@twocolumn
4288       \hboxR to \columnwidth
4289     \else
4290       \hboxR to \textwidth
4291     \fi
4292   \else
4293     \if@twocolumn
4294       \hboxL to \columnwidth
4295     \else

```



```

4296     \hboxL to \textwidth
4297     \fi
4298 \fi
4299 }
4300 \newcommand*{\@bidi@logo}[1]{%
4301   \toks@{%
4302     \setbox\z@\hbox{%
4303       \special{%
4304         pdf:image width 50pt height 50pt (#1)%
4305       }
4306     }%
4307     \dp\z@\z@
4308     \ht\z@=50pt
4309     \wd\z@=50pt
4310     \beginL
4311       \lower20pt\box\z@
4312     \endL
4313   }%
4314   \the\toks@
4315 }
4316 \newcount\bidi@typesethour
4317 \newcount\bidi@typesetminute
4318 \bidi@typesethour=\time
4319 \divide\bidi@typesethour 60
4320 \bidi@typesetminute=-\bidi@typesethour
4321 \multiply\bidi@typesetminute 60
4322 \advance\bidi@typesetminute \time
4323 \newcommand*{\TypesetHour}{\two@digits\bidi@typesethour}
4324 \newcommand*{\TypesetMinute}{\two@digits\bidi@typesetminute}
4325 \newcommand*{\TypesetTime}{\TypesetHour:\TypesetMinute}
4326 \newcommand*{\@bidi@logo@}{%
4327   \@bidi@logo@hb@xt@columnwidth
4328   {\hss\LRE{\bfseries Typeset {\today} at {\TypesetTime} by the \textsf{bidi}
4329     package\quad\@bidi@logo{bidi-logo.pdf}}}}
4330 \ExplSyntaxOn
4331 \keys_define:nn { bidi / pdfencrypt }
4332 {
4333   userpassword .code:n = \def\bidi@pdfencrypt@userpassword{#1} ,
4334   userpassword .default:n =
4335 }
4336 \keys_define:nn { bidi / pdfencrypt }
4337 {
4338   ownerpassword .code:n = \def\bidi@pdfencrypt@ownerpassword{#1} ,
4339   ownerpassword .default:n =
4340 }
4341 \keys_define:nn { bidi / pdfencrypt }
4342 {
4343   keylength .code:n = \def\bidi@pdfencrypt@keylength{#1} ,
4344   keylength .default:n = 128
4345 }
4346 \keys_define:nn { bidi / pdfencrypt }
4347 {
4348   permissionflags .code:n = \def\bidi@pdfencrypt@permissionflags{#1} ,
4349   permissionflags .default:n = 2052

```





```

4350 }
4351 \NewDocumentCommand \pdfencryptsetup {m} { \keys_set:nn { bidi / pdfencrypt } {#1} }
4352 \ExplSyntaxOff
4353 \@onlypreamble\pdfencryptsetup
4354 \input{latex-xetex-bidi.def}
4355
4356 \pdfencryptsetup{%
4357   userpassword,%
4358   ownerpassword,%
4359   keylength,%
4360   permissionflags%
4361 }
4362
4363 \if@extrafootnotefeatures
4364   \input{extrafootnotefeatures-xetex-bidi.def}
4365 \fi
4366 \newcount\bidi@digits
4367 \XeTeXinterchartokenstate=\@ne
4368 \newXeTeXintercharclass\bidi@digits@charclass
4369 \newXeTeXintercharclass\bidi@sepmark@charclass
4370 \XeTeXcharclass`\.\ \bidi@sepmark@charclass
4371 \XeTeXcharclass`\- \bidi@sepmark@charclass
4372 \bidi@digits=\0 \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4373 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4374 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4375 \XeTeXinterchartoks \bidi@sepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCh
4376 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4377 \bidi@AtEndPreamble{%
4378   \if@bidi@perpage@footnote
4379     \RequirePackage{bidi-perpage}%
4380     \ResetCounterPerPage{footnote}%
4381   \fi
4382   \ifx\bidi@pdfencrypt@ownerpassword\bidi@empty
4383     \ifx\bidi@pdfencrypt@userpassword\bidi@empty
4384       \@bidi@pdfencryptfalse
4385     \else
4386       \@bidi@pdfencrypttrue
4387     \fi
4388   \else
4389     \@bidi@pdfencrypttrue
4390   \fi
4391   \if@bidi@pdfencrypt
4392     \special{pdf:encrypt
4393       userpw (\bidi@pdfencrypt@userpassword)
4394       ownerpw (\bidi@pdfencrypt@ownerpassword)
4395       length \bidi@pdfencrypt@keylength
4396       perm \bidi@pdfencrypt@permissionflags
4397     }%
4398   \fi
4399 }
4400 \if@bidi@pdfbanner
4401   \if@bidi@pdfm@mark
4402     \AtEndDocument{%
4403       \special{pdf:%

```



```

4404      docinfo<<%
4405          /Creator(\@bidi@pdfcreator)%
4406          /Producer(\@bidi@pdfproducer)%
4407          /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4408          \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4409              /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4410          }{}%
4411      >>%
4412  }%
4413  }
4414  \else
4415      \AtEndDocument{%
4416          \special{pdf:%
4417              docinfo<<%
4418                  /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4419                  \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4420                      /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4421                  }{}%
4422              >>%
4423          }%
4424      }
4425      \fi
4426  \else
4427      \if@bidi@pdfm@mark
4428          \AtEndDocument{%
4429              \special{pdf:%
4430                  docinfo<<%
4431                      /Creator(\@bidi@pdfcreator)%
4432                      /Producer(\@bidi@pdfproducer)%
4433                  >>%
4434              }%
4435          }
4436      \fi
4437  \fi

```

## 46 File bidi.tex

```

4438 \def\bididate{2025/09/10}
4439 \catcode\@=11
4440 \def\bidi@version{25.09.10}
4441 \def\bidi@releasename{Iran}
4442 \def\bidi@releasename{\bidi@releasename}
4443 \let \protect \relax
4444 \newlinechar`^^J
4445 \edef\@bidi@info{*****^^J%
4446 * ^^J%
4447 * bidi package (Bidirectional typesetting with^^J%
4448 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)^^J%
4449 * ^^J%
4450 * Description: A convenient interface for^^J%
4451 * typesetting bidirectional texts in plain TeX^^J%
4452 * and LaTeX. The package includes adaptations^^J%
4453 * for use with many other commonly-used packages.^^J%
4454 * ^^J%

```



```

4455 * Copyright (c) 2007--2025 Vafa Khalighi^^J%
4456 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
4457 * ^^J%
4458 * v\bidi@version\space (Release \bidi@releasename), \bididate^^J%
4459 * ^^J%
4460 * License: LaTeX Project Public License, version^^J%
4461 * 1.3c or higher (your choice)^^J%
4462 * ^^J%
4463 * Location on CTAN: /macros/unicodetex/generic/bidi^^J%
4464 * ^^J%
4465 * Issue tracker: https://github.com/xepersian/bidi/issues^^J%
4466 * ^^J%
4467 * Primary author of bidi package: Vafa Khalighi.^^J%
4468 * ^^J%
4469 *****}
4470 \edef\bidi@everyjob{\the\everyjob}
4471 \message{\@bidi@info}
4472 \everyjob{\bidi@everyjob\message{\@bidi@info}}
4473 \def\bidiversion{%
4474   \relax
4475   \ifmmode
4476     \bidi@version
4477   \else
4478     $\bidi@version$
4479   \fi
4480 }
4481 \input iftex.sty
4482 \RequireXeTeX
4483 \newif\if@bidi@pdfm@mark
4484 \newif\if@RTLmain
4485 \newif\if@RTL
4486 \newif\if@hboxRconstruct
4487 \newif\if@sentedir
4488 \newif\if@RTL@footnote
4489 \@RTLmainfalse
4490 \def\setRTLmain{%
4491   \if@RTLmain\else
4492     \if@RTL\@RTLmaintrue%
4493     \else\@RTLmainfalse%
4494   \fi%
4495   \fi%
4496 }
4497 \let\n@xt=\
4498 \protected\def\LRE{\protect\pLRE}%
4499 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4500 \protected\def\RLE{\protect\pRLE}
4501 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4502 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4503   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4504 \newinsert\@bidi@copyins@
4505 \skip\@bidi@copyins@=12\p@
4506 \dimen\@bidi@copyins@=40pc
4507 \count\@bidi@copyins@=1000
4508 \def\@bidi@inslogo@\{ \insert\@bidi@copyins@\{\@bidi@logo@\} }

```



```

4509 \def\@bidi@logo@hb@xt@{%
4510   \if@RTLmain
4511     \hboxR to
4512   \else
4513     \hboxL to
4514   \fi
4515 }
4516 \def\@bidi@logo#1{%
4517   \toks@{%
4518     \setbox\z@\hbox{%
4519       \special{%
4520         pdf:image width 50pt height 50pt (#1)%
4521       }
4522     }%
4523     \dp\z@\z@
4524     \ht\z@=50pt
4525     \wd\z@=50pt
4526     \beginL
4527     \lower20pt\box\z@
4528     \endL
4529   }%
4530   \the\toks@
4531 }
4532 \def\today{\ifcase\month\or
4533   January\or February\or March\or April\or May\or June\or
4534   July\or August\or September\or October\or November\or December\fi
4535   \space\number\day, \number\year}
4536 \def\two@digits#1{\ifnum#1<10 0\fi\number#1}
4537 \newcount\bidi@typesethour
4538 \newcount\bidi@typesetminute
4539 \bidi@typesethour=\time
4540 \divide\bidi@typesethour 60
4541 \bidi@typesetminute=-\bidi@typesethour
4542 \multiply\bidi@typesetminute 60
4543 \advance\bidi@typesetminute \time
4544 \def\TypesetHour{\two@digits\bidi@typesethour}
4545 \def\TypesetMinute{\two@digits\bidi@typesetminute}
4546 \def\TypesetTime{\TypesetHour:\TypesetMinute}
4547 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset {\today} at {\TypesetTime} by
4548 \def\bidi@logo{\@bidi@inslogo@}
4549 \def\nobidilogo{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4550 \def\@bidi@pdfcreator{%
4551   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4552 }
4553 \def\@bidi@pdfproducer{%
4554   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4555 }
4556 \def\@bidi@pdfcustomproperties{%
4557   This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4558   Released September 10, 2025.
4559 }
4560 \def\bidi@pdfm@mark{%
4561   \special{pdf:~
4562     docinfo<<%

```



```

4563 \if@bidi@pdfm@mark
4564 /Creator(\@bidi@pdfcreator)%
4565 /Producer(\@bidi@pdfproducer)%
4566 \fi
4567 /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4568 >>%
4569 }%
4570 }
4571 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
4572 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
4573 \input plain-xetex-bidi.def
4574 \outer\def\bye{\bidi@pdfm@mark\par\vfill\supereject\end}
4575 \catcode\@=12
4576 \bidipdfinfoon

```

## 47 File bidi2in1.sty

```

4577 \NeedsTeXFormat{LaTeX2e}
4578 \ProvidesPackage{bidi2in1}
4579 \pagestyle{plain}
4580 \newcount\evenpage
4581 \newcount\oddpag
4582 \twocolumn
4583 \def\@oddfoot{\evenpage=\thepage%
4584 \multiply\evenpage by 2%
4585 \oddpag=\the\evenpage%
4586 \advance\oddpag by -1%
4587 \hfil\the\evenpage\hfil\hfil\the\oddpag\hfil}%
4588 \def\@evenfoot{\evenpage=\thepage%
4589 \multiply\evenpage by 2%
4590 \oddpag=\the\evenpage%
4591 \advance\oddpag by -1%
4592 \hfil\the\oddpag\hfil\hfil\the\evenpage\hfil}%
4593 \textwidth 9.49in
4594 \textheight 6.7in
4595 \columnsep 0.9in
4596 \columnseprule 0.125pt
4597 \headheight 0cm
4598 \topmargin 0in
4599 \marginparwidth 0in
4600 \marginparsep 0in
4601 \hoffset 0.05in % Corrected
4602 \voffset -0.5in %top margin space is 1.0in by default
4603 \oddsidemargin 0in
4604 \evensidemargin 0in
4605 \headsep 0cm
4606 \topskip 0cm
4607 \parskip 0.15in %
4608 \headsep 0pt
4609 \special{papersize=11.69in,8.26in}
4610 \renewcommand\maketitle{\par
4611 \begingroup
4612 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4613 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%

```



```

4614 \long\def\@makefntext##1{\parindent 1em\noindent
4615 \hb@xt@1.8em{%
4616 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4617 \@maketitle
4618 \@thanks
4619 \endgroup
4620 \setcounter{footnote}{0}%
4621 \global\let\thanks\relax
4622 \global\let\maketitle\relax
4623 \global\let\@maketitle\relax
4624 \global\let\@thanks\@empty
4625 \global\let\@author\@empty
4626 \global\let\@date\@empty
4627 \global\let\@title\@empty
4628 \global\let\title\relax
4629 \global\let\author\relax
4630 \global\let\date\relax
4631 \global\let\and\relax
4632 }

```

## 48 File bidicode.sty

```

4633 \NeedsTeXFormat{LaTeX2e}
4634 \ProvidesPackage{bidicode}
4635 \RequirePackage{xcolor}
4636 \RequirePackage{showexpl}
4637 \definecolor{hellgelb}{rgb}{1,1,0.85}
4638 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4639 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4640 \definecolor{colIdentifier}{rgb}{0,0,0}
4641 \definecolor{colComments}{rgb}{1,0,0}
4642 \definecolor{colString}{rgb}{0,0.5,0}
4643 \lstset{%
4644     language=[LaTeX]TeX,%
4645     float=hbp,%
4646     basicstyle=\ttfamily\small,%
4647     identifierstyle=\color{colIdentifier},%
4648     keywordstyle=\color{colKeys},%
4649     texcsstyle=\color{colCS},%
4650     stringstyle=\color{colString},%
4651     commentstyle=\color{colComments},%
4652     backgroundcolor=\color{hellgelb},%
4653     columns=flexible,%
4654     tabsize=4,%
4655     extendedchars=true,%
4656     showspaces=false,%
4657     showstringspaces=false,%
4658     numbers=left,%
4659     numbersep=0.9em,%
4660     numberstyle=\tiny,%
4661     frame=single,%
4662     captionpos=b,%
4663     xleftmargin=1em,%
4664     breaklines=true,%

```



```

4665     breakautoindent=false,%
4666     breakindent=0pt,%
4667     escapeinside=**,%
4668     pos=r,%
4669     explpreset={%
4670         xleftmargin=1em,%
4671         columns=flexible,%
4672         language=[LaTeX]TeX%
4673     },%
4674     moretexcs={%
4675         bididate,%
4676         bidiversion,%
4677         deflatinfont,%
4678         defpersianfont,%
4679         ding,%
4680         endLTR,%
4681         endRTL,%
4682         false,%
4683         falsesymbol,%
4684         junicode,%
4685         lr,%
4686         LR,%
4687         LRE,%
4688         LTR,%
4689         maketitle,%
4690         Nastaliq,%
4691         newfontfamily,%
4692         Parsifont,%
4693         part,%
4694         RL,%
4695         RLE,%
4696         RTL,%
4697         RTLcases,%
4698         SepMark,%
4699         setLR,%
4700         setLTR,%
4701         setRL,%
4702         setRTL,%
4703         settextfont,%
4704         subsection,%
4705         subsubsection,%
4706         tableofcontents,%
4707         text,%
4708         theequation,%
4709         thesection,%
4710         true,%
4711         truesymbol,%
4712         XePersian,%
4713         xepersiandate,%
4714         xepersianversion%
4715     }%
4716 }
4717 \newcommand\HLON{%
4718     \gdef\lst@alloverstyle##1{%

```



```

4719 \fboxrule=0pt
4720 \fboxsep=0pt
4721 \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4722 }}
4723 \newcommand\HLOFF{%
4724 \xdef\lst@alloverstyle##1{##1}%
4725 }
4726 \newcommand\Larg [1]{\normalfont\itshape#1\/\}}
4727 \newcommand\Larga[1]{\$\langle$\Larg{#1}$\rangle$}
4728 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4729 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4730 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
4731 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}
4732 \newcommand\LEND[1]{\normalfont\ttfamily\bs{}end\lcb#1\rcb}
4733
4734 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
4735 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`{}}
4736 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`{}}
4737 \DeclareRobustCommand\lsb{\normalfont\ttfamily[]}
4738 \DeclareRobustCommand\rsb{\normalfont\ttfamily]}
4739 \DeclareRobustCommand\lrb{\normalfont\ttfamily{}}
4740 \DeclareRobustCommand\rrb{\normalfont\ttfamily}}
4741
4742 \def\Lcs#1{\nxLcs{#1}}
4743 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4744 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4745
4746 \def\Coordx#1{$_{#1}$}
4747 \def\Coordy#1{$_{#1}$}
4748 \def\Coordz#1{$_{#1}$}
4749 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4750 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4751 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4752 \def\CAny{\Coordx{},\kern 1pt\Coordy{}}
4753 \def\CIIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4754 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4755 \def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
4756 \def\coordi#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4757 \def\coordx#1{($x_{#1}$)}
4758 \def\coordy#1{($y_{#1}$)}
4759 \def\coordz#1{($z_{#1}$)}
4760 \def\cAny{(\Coordx{},\kern 1pt\Coordy{}}
4761 \def\ciiiiAny{(\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4762
4763 \newsavebox{\boxdef}
4764 \newenvironment{BDef}
4765 {\begin{lrbox}\boxdef
4766 \def\arraystretch{1.0}
4767 \begin{tabular}{@{}l@{}l@{}l@{}}
4768 }
4769 {\end{tabular}\end{lrbox}}
4770
4771 {\BCmd\fbox{\usebox\boxdef}\endBCmd}
4772 \aftergroup\@afterindentfalse\aftergroup\@afterheading

```





```

4773 }
4774
4775 \newenvironment{BDef*}
4776   {\begin{lrbox}\boxdef
4777     \def\arraystretch{1.0}
4778     \begin{tabular}{@{}l@{}l@{}l@{}}
4779   }
4780   {\end{tabular}\end{lrbox}
4781   {\begin{BCmd*}\fbox{\usebox\boxdef}\end{BCmd*}}
4782   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4783 }
4784 \newenvironment{BCmd*}{
4785   \@beginparpenalty-\@lowpenalty
4786   \topsep\BDefaboveskip
4787   \fboxsep3pt
4788   \flushleft}
4789 {\@endparpenalty\@M
4790  \@topsepadd\BDefbelowskip
4791  \endflushleft}
4792
4793 \newenvironment{BCmd*}{
4794   \@beginparpenalty\@M
4795   \topsep\BDefinlineskip
4796   \fboxsep3pt
4797   \flushleft}
4798 {\@endparpenalty5000
4799  \endflushleft}
4800
4801 \newskip\BDefaboveskip
4802 \newskip\BDefbelowskip
4803 \newskip\BDefinlineskip
4804 \setlength\BDefaboveskip{10pt plus 4pt}
4805 \setlength\BDefbelowskip{6pt}
4806 \setlength\BDefinlineskip{6pt}
4807
4808 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4809 \def\OptArg{\@ifnextchar*\OptArgi{\OptArg@ii*}}
4810 \def\OptArgi*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4811 \def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

## 49 File bidiftnxtra.sty

```

4812 \NeedsTeXFormat{LaTeX2e}
4813 \ProvidesPackage{bidiftnxtra}
4814 \newtoks\bidip@ftn
4815 \let\FN@sff@footnote\footnote
4816 \let\FN@sff@LTRfootnote\LTRfootnote
4817 \let\FN@sff@RTLfootnote\RTLfootnote
4818 \def\footnote{\ifx\protect\@typeset@protect
4819   \expandafter\FN@sff@footnote
4820   \else
4821     \expandafter\FN@sff@gobble@opt
4822   \fi
4823 }

```



```

4824 \def\LTRfootnote{\ifx\protect\@typeset@protect
4825   \expandafter\FN@sfi@LTRfootnote
4826   \else
4827     \expandafter\FN@sfi@gobble@opt
4828   \fi
4829 }
4830 \def\RTLfootnote{\ifx\protect\@typeset@protect
4831   \expandafter\FN@sfi@RTLfootnote
4832   \else
4833     \expandafter\FN@sfi@gobble@opt
4834   \fi
4835 }
4836 \edef\FN@sfi@gobble@opt{\noexpand\protect
4837   \expandafter\noexpand\csname FN@sfi@gobble@opt \endcsname}
4838 \expandafter\def\csname FN@sfi@gobble@opt \endcsname{%
4839   \ifnextchar[%]
4840     \FN@sfi@gobble@twobrace
4841     \gobble
4842 }
4843 \def\FN@sfi@gobble@twobrace[#1]#2{}
4844 \let\FN@sfi@footnotemark\footnotemark
4845 \def\footnotemark{\ifx\protect\@typeset@protect
4846   \expandafter\FN@sfi@footnotemark
4847   \else
4848     \expandafter\FN@sfi@gobble@optonly
4849   \fi
4850 }
4851 \edef\FN@sfi@gobble@optonly{\noexpand\protect
4852   \expandafter\noexpand\csname FN@sfi@gobble@optonly \endcsname}
4853 \expandafter\def\csname FN@sfi@gobble@optonly \endcsname{%
4854   \ifnextchar[%]
4855     \FN@sfi@gobble@brace
4856     {}%
4857 }
4858 \def\FN@sfi@gobble@brace[#1]{}
4859 \def\@tabular{%
4860   \leavevmode \hbox \bgroup
4861   \let\@footnotetext\@bidi@p@ftntext
4862   \let\@LTRfootnotetext\@bidi@p@LTRftntext
4863   \let\@RTLfootnotetext\@bidi@p@RTLftntext
4864   \let\@xfootnotenext\@bidi@p@xftntext
4865   \let\@xfootnote\@bidi@p@xfootnote
4866   \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4867   \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4868   \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4869   \let\@xRTLfootnote\@bidi@p@xRTLfootnote
4870   \if@RTLtab\beginR \fi
4871   $\let\@acol\@tabacol
4872   \let\@classz\@tabclassz
4873   \let\@classiv\@tabclassiv \let\\\@tabulacr\@tabarray}
4874 \def\endtabular{\@crr\egroup\if@RTLtab\egroup\endR\egroup\fi
4875   \egroup $\if@RTLtab\endR\fi\egroup
4876   \ifx\@cuptype\@undefined
4877     \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn\fi}

```



```

4878 \long\def\bidip@ftntext#1{%
4879   \edef\@tempy{\the\bidip@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}}%
4880   \global\bidip@ftn\expandafter{\@tempy{#1}}}%
4881 \long\def\bidip@LTRftntext#1{%
4882   \edef\@tempyi{\the\bidip@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}}%
4883   \global\bidip@ftn\expandafter{\@tempyi{#1}}}%
4884 \long\def\bidip@RTLftntext#1{%
4885   \edef\@tempyii{\the\bidip@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}}%
4886   \global\bidip@ftn\expandafter{\@tempyii{#1}}}%
4887
4888
4889 \long\def\bidip@xftntext[#1]#2{%
4890   \global\bidip@ftn\expandafter{\the\bidip@ftn\footnotetext[#1]{#2}}}
4891
4892 \long\def\bidip@xLTRftntext[#1]#2{%
4893   \global\bidip@ftn\expandafter{\the\bidip@ftn\LTRfootnotetext[#1]{#2}}}
4894
4895 \long\def\bidip@xRTLftntext[#1]#2{%
4896   \global\bidip@ftn\expandafter{\the\bidip@ftn\RTLfootnotetext[#1]{#2}}}
4897
4898
4899 \def\bidip@xfootnote[#1]{%
4900   \begingroup
4901     \csname c@\mpfn\endcsname #1\relax
4902     \unrestored@protected@xdef\@thefnmark{\thempfn}%
4903   \endgroup
4904   \@footnotemark\bidip@xftntext[#1]}
4905
4906
4907 \def\bidip@xLTRfootnote[#1]{%
4908   \begingroup
4909     \csname c@\mpfn\endcsname #1\relax
4910     \unrestored@protected@xdef\@thefnmark{\thempfn}%
4911   \endgroup
4912   \@footnotemark\bidip@xLTRftntext[#1]}
4913
4914
4915 \def\bidip@xRTLfootnote[#1]{%
4916   \begingroup
4917     \csname c@\mpfn\endcsname #1\relax
4918     \unrestored@protected@xdef\@thefnmark{\thempfn}%
4919   \endgroup
4920   \@footnotemark\bidip@xRTLftntext[#1]}
4921
4922 \def\@xfloat #1[#2]{%
4923   \@nodocument
4924   \def \@captype {#1}%
4925   \def \@fps {#2}%
4926   \@onelevel@sanitize \@fps
4927   \def \reserved@b {!}%
4928   \ifx \reserved@b \@fps
4929     \@fpsadddefault
4930   \else
4931     \ifx \@fps \@empty

```



```

4932     \@fpsadddefault
4933     \fi
4934 \fi
4935 \ifhmode
4936     \@bsphack
4937     \@floatpenalty -\@Mii
4938 \else
4939     \@floatpenalty-\@Miii
4940 \fi
4941 \ifinner
4942     \@parmoderr\@floatpenalty\z@
4943 \else
4944     \@next\@currbox\@freelist
4945     {%
4946     \@tempcnta \sixt@@n
4947     \expandafter \@tfor \expandafter \reserved@a
4948     \expandafter :\expandafter =\@fps
4949     \do
4950     {%
4951         \if \reserved@a h%
4952             \ifodd \@tempcnta
4953             \else
4954                 \advance \@tempcnta \@ne
4955             \fi
4956         \fi
4957         \if \reserved@a t%
4958             \@setfpsbit \tw@
4959         \fi
4960         \if \reserved@a b%
4961             \@setfpsbit 4%
4962         \fi
4963         \if \reserved@a p%
4964             \@setfpsbit 8%
4965         \fi
4966         \if \reserved@a !%
4967             \ifnum \@tempcnta>15
4968                 \advance\@tempcnta -\sixt@@n\relax
4969             \fi
4970         \fi
4971     }%
4972     \@tempcntb \csname ftype@\@capttype \endcsname
4973     \multiply \@tempcntb \@xxxii
4974     \advance \@tempcnta \@tempcntb
4975     \global \count\@currbox \@tempcnta
4976     }%
4977 \@fltovf
4978 \fi
4979 \global \setbox\@currbox
4980     \color@vbox
4981     \normalcolor
4982     \vbox \bgroup
4983     \let\@footnotetext\@bidi@p@ftntext
4984     \let\@LTRfootnotetext\@bidi@p@LTRftntext
4985     \let\@RTLfootnotetext\@bidi@p@RTLftntext

```



```

4986 \let\@xfootnotenext\@xftntext
4987 \let\@xfootnote\@xfootnote
4988 \let\@xLTRfootnotenext\@xLTRftntext
4989 \let\@xLTRfootnote\@xLTRfootnote
4990 \let\@xRTLfootnotenext\@xRTLftntext
4991 \let\@xRTLfootnote\@xRTLfootnote
4992 \hsize\columnwidth
4993 \@parboxrestore
4994 \@floatboxreset
4995 }
4996 \def \@endfloatbox{%
4997 \par\vskip\z@skip %% \par\vskip\z@ added 15 Dec 87
4998 \@minipagefalse
4999 \outer@nobreak
5000 \egroup %% end of vbox
5001 \global\@xftn\expandafter{\expandafter}\the\@xftn
5002 \color@endbox
5003 }

```

## 50 File bidimoderncv.cls

```

5004 \NeedsTeXFormat{LaTeX2e}
5005 \ProvidesClass{bidimoderncv}
5006 \newif\if@DEBUG\@DEBUGfalse
5007 \DeclareOption{a4paper}{
5008 \setlength\paperheight{297mm}
5009 \setlength\paperwidth{210mm}}
5010 \DeclareOption{a5paper}{
5011 \setlength\paperheight{210mm}
5012 \setlength\paperwidth{148mm}}
5013 \DeclareOption{b5paper}{
5014 \setlength\paperheight{250mm}
5015 \setlength\paperwidth{176mm}}
5016 \DeclareOption{letterpaper}{
5017 \setlength\paperheight{11in}
5018 \setlength\paperwidth{8.5in}}
5019 \DeclareOption{legalpaper}{
5020 \setlength\paperheight{14in}
5021 \setlength\paperwidth{8.5in}}
5022 \DeclareOption{executivepaper}{
5023 \setlength\paperheight{10.5in}
5024 \setlength\paperwidth{7.25in}}
5025 \DeclareOption{landscape}{
5026 \setlength\@tempdima{\paperheight}
5027 \setlength\paperheight{\paperwidth}
5028 \setlength\paperwidth{\@tempdima}}
5029 \newcommand\@ptsize{}
5030 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
5031 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
5032 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
5033 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
5034 \DeclareOption{final}{\setlength\overfullrule{0pt}}
5035 \newif\if@colour\@colourtrue
5036 \DeclareOption{nocolour}{\@colourfalse}

```



```

5037 \ExecuteOptions{a4paper,11pt,colour,final}
5038 \ProcessOptions\relax
5039 \input{size1\@ptsize.clo}
5040 \RequirePackage{color}
5041 \RequirePackage{graphicx}
5042 \RequirePackage{ifthen}
5043 \RequirePackage{marvosym}
5044 \addtolength{\oddsidemargin}{-54pt}
5045 \addtolength{\textwidth}{109pt}
5046 \addtolength{\topmargin}{-70pt}
5047 \addtolength{\textheight}{122pt}
5048 \addtolength{\marginparsep}{-5pt}
5049 \addtolength{\marginparwidth}{-10pt}
5050 \RequirePackage{url}
5051 \RequirePackage{hyperref}
5052 \hypersetup{%
5053   breaklinks,
5054   baseurl      = http://,%
5055   pdfborder    = 0 0 0,%
5056   pdfpagemode  = UseNone,%
5057   pdfstartpage = 1}
5058 \AtEndOfClass{%
5059   \AtBeginDocument{%
5060     \hypersetup{%
5061       pdfauthor      = \@firstname~\@familyname,%
5062       pdftitle       = \@title,%
5063       pdfsubject     = \@firstname~\@familyname,%
5064       pdfkeywords    = \@resumename~\@firstname~\@familyname}}}
5065 \urlstyle{tt}
5066 \RequirePackage{fancyhdr}
5067 \fancypagestyle{plain}{%
5068   \renewcommand{\headrulewidth}{0pt}
5069   \renewcommand{\footrulewidth}{0pt}
5070   \fancyhf{}}
5071 \pagestyle{plain}
5072 \setlength\lineskip{1\p@}
5073 \setlength\normallineskip{1\p@}
5074 \renewcommand\baselinestretch{}
5075 \setlength{\parindent}{0pt}
5076 \setlength{\parskip}{0pt}
5077 \setlength\columnsep{10\p@}
5078 \setlength\columnseprule{0\p@}
5079 \pagestyle{empty}
5080 \pagenumbering{arabic}
5081 \raggedbottom
5082 \onecolumn
5083 \providecommand*\listitemsymbol{\textbullet}
5084 \providecommand*\addresssymbol{}
5085 \providecommand*\mobilesymbol{\Mobilefone}
5086 \providecommand*\phonesymbol{\Telefon}
5087 \providecommand*\faxsymbol{\FAX}
5088 \providecommand*\emailsymbol{\Letter}
5089 \definecolor{firstnamecolor}{rgb}{0,0,0}
5090 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}

```



```

5091 \def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
5092 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
5093 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
5094 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
5095 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
5096 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
5097 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
5098 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
5099 \providecommand*\{firstfont}{\font}
5100 \providecommand*\{familyfont}{\font}
5101 \providecommand*\{titlefont}{\font}
5102 \providecommand*\{addressfont}{\font}
5103 \providecommand*\{quotefont}{\font}
5104 \providecommand*\{sectionfont}{\font}
5105 \providecommand*\{subsectionfont}{\font}
5106 \providecommand*\{hintfont}{\font}
5107 \providecommand*\{firststyle}[1]{\font\@firstfont\@firstcolour#1}
5108 \providecommand*\{familystyle}[1]{\font\@familyfont\@familycolour#1}
5109 \providecommand*\{titlestyle}[1]{\font\@titlefont\@titlecolour#1}
5110 \providecommand*\{addressstyle}[1]{\font\@addressfont\@addresscolour#1}
5111 \providecommand*\{quostyle}[1]{\font\@quotefont\@quotecolour#1}
5112 \providecommand*\{sectionstyle}[1]{\font\@sectionfont\@sectiontitlecolour#1}
5113 \providecommand*\{subsectionstyle}[1]{\font\@subsectionfont\@subsectioncolour#1}
5114 \providecommand*\{hintstyle}[1]{\font\@hintfont\@hintcolour#1}
5115 \newcommand*\{cvtheme}[2]{}
5116 \def\@cvtheme{#2}
5117 \def\@cvthemeoptions{#1}
5118 \cvtheme{bidi-casual}
5119 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
5120 \newcommand*\{resumename}[1]{\def\@resumename{#1}}
5121 \newcommand*\{firstname}[1]{\def\@firstname{#1}}
5122 \newcommand*\{familyname}[1]{\def\@familyname{#1}}
5123 \renewcommand*\{title}[1]{\def\@title{#1}}
5124 \newcommand*\{address}[1]{\def\@address{#1}}
5125 \newcommand*\{mobile}[1]{\def\@mobile{#1}}
5126 \newcommand*\{phone}[1]{\def\@phone{#1}}
5127 \renewcommand*\{fax}[1]{\def\@fax{#1}}
5128 \newcommand*\{email}[1]{\def\@email{#1}}
5129 \newcommand*\{extrainfo}[1]{\def\@extrainfo{#1}}
5130 \def\@photowidth{0pt}
5131 \newcommand*\{photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5132 \newcommand*\{quote}[1]{\def\@quote{#1}}
5133 \newlength{\quotewidth}
5134 \newlength{\hintscolumnwidth}
5135 \newlength{\separatorcolumnwidth}
5136 \setlength{\separatorcolumnwidth}{0.025\textwidth}
5137 \newlength{\maincolumnwidth}
5138 \newlength{\doubleitemmaincolumnwidth}
5139 \newlength{\listitemsymbolwidth}
5140 \settozero{\listitemsymbolwidth}{\listitemsymbolwidth}
5141 \newlength{\listitemmaincolumnwidth}
5142 \newlength{\listdoubleitemmaincolumnwidth}
5143 \newcommand*\{recomputethemelengths}{}
5144 \newcommand*\{recomputelengths}{%

```



```

5145 \setlength{\quotewidth}{0.65\textwidth}%
5146 \setlength{\maincolumnwidth}{\textwidth}%
5147 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5148 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5149 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5150 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5151 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5152 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5153 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5154 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5155 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5156 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5157 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
5158 \renewcommand{\headwidth}{\textwidth}%
5159 \recomputethemelengths
5160 \setlength{\hintscolumnwidth}{0.15\textwidth}
5161 \recomputelengths
5162 \title{}
5163 \renewcommand*{\maketitle}{}
5164 \newcommand*{\section}[1]{%
5165 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5166 \phantomsection}%
5167 \addcontentsline{toc}{part}{#1}%
5168 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5169 \hspace{\separatorcolumnwidth}%
5170 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\@[1ex]}
5171 \newcommand*{\subsection}[1]{%
5172 \cvline[0.45em]{\subsectionstyle{#1}}%
5173 \newcommand*{\cvline}[3][.25em]{%
5174 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
5175 \bidi@raggedleft\hintfont{#2} &{#3}%
5176 \end{tabular}\@[#1]}
5177 \newcommand*{\cvdoubleitem}[4]{%
5178 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5179 \hfill%
5180 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\
5181 \newcommand*{\cvlistitem}[2][\listitemsymbol{}]{%
5182 \cvline[0pt]{\#1~\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}%
5183 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol{}]{%
5184 \cvline[0pt]{\#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5185 \hfill%
5186 \ifthenelse{equal{#3}}{%
5187 {}%
5188 {\#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}%
5189 \newcommand*{\cventry}[6]{%
5190 \cvline{#1}{%
5191 {\bfseries#2}%
5192 \ifx#3\else{, {\slshape#3}}\fi%
5193 \ifx#4\else{, #4}\fi%
5194 \ifx#5\else{, #5}\fi%
5195 .%
5196 \ifx#6\else{\newline}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
5197 }%
5198 \newcommand*{\cvlanguage}[3]{%

```





```

5199 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#3}\end{minipage}\hfill\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#4}\end{minipage}}
5200 \newcommand*{\cvcomputer}[4]{%
5201 \cvdoubleitem{#1}{\small#2}{\small#3}{\small#4}}
5202 \newcommand*{\link}[2][{}]{%
5203 \ifthenelse{\equal{#1}{}}{%
5204 {\href{#2}{#2}}%
5205 {\href{#2}{#1}}}
5206 \newcommand*{\httplink}[2][{}]{%
5207 \ifthenelse{\equal{#1}{}}{%
5208 {\href{http://#2}{#2}}%
5209 {\href{http://#2}{#1}}}
5210 \newcommand*{\emailink}[2][{}]{%
5211 \ifthenelse{\equal{#1}{}}{%
5212 {\href{mailto:#2}{#2}}%
5213 {\href{mailto:#2}{#1}}}
5214 \newif\if@displaypagenumbers\@displaypagenumberstrue
5215 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
5216 \AtBeginDocument{%
5217 \if@displaypagenumbers%
5218 \ifundefined{r@lastpage}{\@displaypagenumberstrue}%
5219 \ifthenelse{\pageref{lastpage} > 1}{%
5220 \fancypagestyle{plain}{%
5221 \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL\pageref{lastpage}}%
5222 \pagestyle{plain}}}%
5223 \AtEndDocument{\label{lastpage}}%
5224 \fi}
5225 \newlength{\bibindent}
5226 \setlength{\bibindent}{1.5em}
5227 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5228 \newenvironment{thebibliography}[1]{%
5229 {%
5230 \section{\refname}%
5231 \small%
5232 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5233 \bidi@thebibliography@font@hook%
5234 \begin{list}{\bibliographyitemlabel}%
5235 {%
5236 \setlength{\topsep}{0pt}%
5237 \setlength{\labelwidth}{\hintscolumnwidth}%
5238 \setlength{\labelsep}{\separatorcolumnwidth}%
5239 \leftmargin\labelwidth%
5240 \advance\leftmargin\labelsep%
5241 \@openbib@code%
5242 \usecounter{enumiv}%
5243 \let\p@enumiv\@empty%
5244 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
5245 \sloppy\clubpenalty4000\widowpenalty4000%
5246 }%
5247 {%
5248 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5249 \end{list}%
5250 }
5251 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5252 \let\@openbib@code\@empty

```



## 51 File bidi-perpage.sty

```

5253 \NeedsTeXFormat{LaTeX2e}
5254 \ProvidesPackage{bidi-perpage}[2018/10/04 v0.4 Reset counter(s) on every page]
5255 \newcount\bidi@page@count
5256 \bidi@page@count\@ne
5257 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
5258   \if@bidi@csundef\bidi@stepcounterhook@#2}{%
5259     \expandafter\gdef\csname bidi@stepcounterhook@#2\endcsname{%
5260     }%
5261   \if@bidi@csundef\if@bidi@reset@#2@rerun}{%
5262     \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5263   }{%
5264     \if@bidi@csundef\bidi@#2@count}{%
5265     \expandafter\newcount\csname bidi@#2@count\endcsname
5266   }{%
5267     \csname bidi@#2@count\endcsname\z@
5268   \if@bidi@csundef\bidi@previous@page@#2@count}{%
5269     \expandafter\newcount\csname
5270     bidi@previous@page@#2@count\endcsname
5271   }{%
5272     \csname bidi@previous@page@#2@count\endcsname\z@
5273   \if@bidi@csundef\bidi@reset@#2@perpage}{%
5274     \bidi@AfterEndDocumentCheckLabelsRerun{%
5275       \csname if@bidi@reset@#2@rerun\endcsname
5276       \PackageWarningNoLine{bidi-perpage}{%
5277         Counter `#2' may not have been reset per page.
5278         Rerun to reset counter `#2' per page%
5279       }%
5280     }%
5281   }%
5282 }{%
5283 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5284   \global\advance\csname bidi@#2@count\endcsname\@ne
5285   \if@filesw
5286     \edef\@tempa{%
5287       \write\@auxout{%
5288         \string\bidi@counter@page{#2}%
5289         {\number\csname bidi@#2@count\endcsname}%
5290         {\noexpand\number\noexpand\bidi@page@count}%
5291       }%
5292     }%
5293     \@tempa
5294   \fi
5295   \begingroup\expandafter\expandafter\expandafter\endgroup
5296   \expandafter\ifx\csname bidi@#2@@\number\csname
5297   bidi@#2@count\endcsname\endcsname\relax
5298     \global\csname @bidi@reset@#2@reruntrue\endcsname
5299   \else
5300     \global\csname @bidi@reset@#2@rerunfalse\endcsname
5301     \expandafter\@tempcnta\csname bidi@#2@@\number
5302     \csname bidi@#2@count\endcsname\endcsname\relax
5303     \ifnum\@tempcnta=\csname
5304     bidi@previous@page@#2@count\endcsname

```



```

5305 \else
5306 \global\csname
5307   bidi@previous@page@@#2@count\endcsname\@tempcnta
5308 \global\csname c@#2\endcsname#1\relax
5309 \fi
5310 \fi
5311 }%
5312 \expandafter\bidi@gappto\csname
5313   bidi@stepcounterhook@@#2\endcsname{%
5314   \csname bidi@reset@#2@perpage\endcsname
5315 }%
5316 }
5317 \def\bidi@counter@page#1#2#3{\bidi@namegdef\bidi@#1@@#2}{#3}}
5318 \bidi@AtEndOutputPage{%
5319 \global\advance\bidi@page@count\@ne
5320 }

```

## 52 File biditools.sty

```

5321 \NeedsTeXFormat{LaTeX2e}
5322 \ProvidesPackage{biditools}[2025/02/02 v2.7 Programming tools for bidi package]
5323 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\relax
5324   \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5325   \ifx\@tempa\@tempb \global\let#2#1%
5326   \else
5327     \edef\@tempb{\meaning#2}%
5328     \ifx\@tempa\@tempb
5329     \else
5330       \latex@error{Unable to properly define \string#2; primitive
5331       \noexpand#1no longer primitive}\@eha
5332     \fi
5333   \fi
5334   \endgroup}
5335 \newtoks\@bidi@envbody
5336 \newtoks\@bidi@emptytoks
5337 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5338 \def\bidi@collect@body#1{%
5339   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5340   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5341   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5342   \begingroup
5343   \expandafter\let\csname\@currentvir\endcsname\bidi@collect@@body
5344   \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5345   \bidi@process@envbody
5346 }
5347 \def\bidi@push@begins#1\begin#2{%
5348   \ifx\end#2\else b\expandafter\bidi@push@begins\fi
5349 }
5350 \def\bidi@collect@@body#1\end#2{%
5351   \edef\begin@bidi@stack{\bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5352   \ifx\@empty\begin@bidi@stack
5353     \endgroup
5354     \checkend{#2}%
5355     \bidi@addto@envbody{#1}%

```



```

5356 \else
5357   \bidi@addto@envbody{#1\end{#2}}%
5358 \fi
5359 \bidi@process@envbody % A little tricky! Note the grouping
5360 }
5361 \long\def\bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5362 \long\def\bidi@collect@long@body#1{%
5363   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5364   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5365   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5366   \begingroup
5367   \expandafter\let\csname\@currentvir\endcsname\bidi@collect@long@@body
5368   \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5369   \bidi@process@envbody
5370 }
5371 \long\def\bidi@push@long@begins#1\begin#2{%
5372   \ifx\end#2\else b\expandafter\bidi@push@long@begins\fi
5373 }
5374 \long\def\bidi@collect@long@@body#1\end#2{%
5375   \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5376   \ifx\@empty\begin@bidi@stack
5377     \endgroup
5378     \@checkend{#2}%
5379     \bidi@addto@long@envbody{#1}%
5380   \else
5381     \bidi@addto@long@envbody{#1\end{#2}}%
5382   \fi
5383   \bidi@process@envbody % A little tricky! Note the grouping
5384 }
5385 \long\def\bidi@new@ifnextchar#1#2#3{%
5386   \let\reserved@d= #1%
5387   \def\reserved@a{#2}\def\reserved@b{#3}%
5388   \futurelet\@let@token\bidi@new@ifnch
5389 }
5390 \def\bidi@new@ifnch{%
5391   \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5392   \reserved@b
5393 }
5394 \def\bidi@matrix@check#1{%
5395   \expandafter\ifx\csname\@currentvir\endcsname#1%
5396   \else\bidi@matrix@error#1%
5397     \expandafter\@gobble
5398   \fi
5399 }
5400 \def\bidi@matrix@error#1{%
5401   \PackageError{biditools}{%
5402     Old form ``\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
5403   }{%
5404     ``\string#1{...}' is old bidi package syntax whose use is
5405     ill-advised in the old versions of bidi package.%
5406   }%
5407 }
5408 \def\eqnewif#1#2{%
5409   \count@\escapechar \escapechar\m@ne

```



```

5410 \let#1\iffalse
5411 \let#2\iffalse
5412 \eq@if#1#2\iftrue
5413 \eq@if#1#2\iffalse
5414 \escapechar\count@}
5415 \def\eq@if#1#2#3{%
5416 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5417 \expandafter@gobbletwo\string#3\endcsname
5418 {\let#1#3%
5419 \let#2#3}%
5420 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5421 \expandafter@gobbletwo\string#3\endcsname
5422 {\let#2#3%
5423 \let#1#3}}
5424 \def\noteqnewif#1#2{%
5425 \count@\escapechar \escapechar\m@ne
5426 \let#1\iffalse
5427 \let#2\iffalse
5428 \not@eq@if#1#2\iftrue\iffalse
5429 \escapechar\count@}
5430 \def\not@eq@if#1#2#3#4{%
5431 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5432 \expandafter@gobbletwo\string#3\endcsname
5433 {\let#1#3%
5434 \let#2#4}%
5435 \expandafter\def\csname\expandafter@gobbletwo\string#1%
5436 \expandafter@gobbletwo\string#4\endcsname
5437 {\let#1#4%
5438 \let#2#3}%
5439 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5440 \expandafter@gobbletwo\string#3\endcsname
5441 {\let#2#3%
5442 \let#1#4}%
5443 \expandafter\def\csname\expandafter@gobbletwo\string#2%
5444 \expandafter@gobbletwo\string#4\endcsname
5445 {\let#2#4%
5446 \let#1#3}}
5447 \newcommand*\SetBoolean}[2]{%
5448 \lowercase{\def\@tempa{#2}}%
5449 \@ifundefined{\@tempa}{\PackageError{biditytools}%
5450 {\PackageError{biditytools}%
5451 {You can only set a boolean to `true' or `false'}\@ehc}%
5452 {\@ifundefined{#1\@tempa}%
5453 {\PackageError{biditytools}{Boolean #1 undefined}\@ehc}%
5454 {\csname#1\@tempa\endcsname}}}%
5455 \newcommand*\GlobalSetBoolean}[2]{%
5456 \lowercase{\def\@tempa{#2}}%
5457 \@ifundefined{\@tempa}{\PackageError{biditytools}%
5458 {\PackageError{biditytools}%
5459 {You can only set a boolean to `true' or `false'}\@ehc}%
5460 {\@ifundefined{#1\@tempa}%
5461 {\PackageError{biditytools}{Boolean #1 undefined}\@ehc}%
5462 {\global\csname#1\@tempa\endcsname}}}%
5463 \newcommand*\SetatBoolean}[2]{%

```



```

5464 \lowercase{\def\@tempa{#2}}%
5465 \@ifundefined{@tempwa\@tempa}%
5466 {\PackageError{biditools}%
5467   {You can only set a boolean to `true' or `false'}\@ehc}%
5468 {\@ifundefined{@#1\@tempa}%
5469   {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5470   {\csname @#1\@tempa\endcsname}}}
5471 \newcommand*{\GlobalSetatBoolean}[2]{%
5472   \lowercase{\def\@tempa{#2}}%
5473   \@ifundefined{@tempwa\@tempa}%
5474   {\PackageError{biditools}%
5475     {You can only set a boolean to `true' or `false'}\@ehc}%
5476   {\@ifundefined{@#1\@tempa}%
5477     {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5478     {\global\csname @#1\@tempa\endcsname}}}
5479 \def\@bidi@removefromreset#1#2{%
5480   \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5481   \def\@elt##1{%
5482     \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5483     \else
5484       \noexpand\@elt{##1}%
5485     \fi}%
5486   \expandafter\xdef\csname cl@#2\endcsname{%
5487     \csname cl@#2\endcsname}}
5488 \newcommand*{\ifRtoL}{%
5489   \if@RTL
5490     \expandafter\@firstoftwo
5491   \else
5492     \expandafter\@secondoftwo
5493   \fi}
5494 \newcommand*{\ifLtoR}{%
5495   \if@RTL
5496     \expandafter\@secondoftwo
5497   \else
5498     \expandafter\@firstoftwo
5499   \fi}
5500 \newcommand*{\ifRtoLtable}{%
5501   \if@RTLtab
5502     \expandafter\@firstoftwo
5503   \else
5504     \expandafter\@secondoftwo
5505   \fi}
5506 \newcommand*{\ifLtoRtable}{%
5507   \if@RTLtab
5508     \expandafter\@secondoftwo
5509   \else
5510     \expandafter\@firstoftwo
5511   \fi}
5512 \newcommand*{\ifRtoLhboxconstruct}{%
5513   \if@hboxRconstruct
5514     \expandafter\@firstoftwo
5515   \else
5516     \expandafter\@secondoftwo
5517   \fi}

```



```

5518 \newcommand*{\ifLtoRhboxconstruct}{%
5519   \if@hboxRconstruct
5520     \expandafter\@secondoftwo
5521   \else
5522     \expandafter\@firstoftwo
5523   \fi}
5524 \newcommand*{\iflatin}{%
5525   \if@nonlatin
5526     \expandafter\@secondoftwo
5527   \else
5528     \expandafter\@firstoftwo
5529   \fi}
5530 \newcommand*{\ifnonlatin}{%
5531   \if@nonlatin
5532     \expandafter\@firstoftwo
5533   \else
5534     \expandafter\@secondoftwo
5535   \fi}
5536
5537 \newcommand*{\bidi@@convert@dimen@t@unit}[2]{%
5538   \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5539
5540 \newcommand*{\bidi@@convert@dimen@t@pt}[1]{%
5541   \dimexpr #1*65536/\dimexpr 1pt\relax}
5542
5543 \newcommand*{\IfPackageVersionAtLeastTF}[1]{%
5544   \expandafter\@if@ver@pkg@least\csname #1@version\endcsname
5545 }
5546 \newcommand*{\@if@ver@pkg@least}[2]{%
5547   \ifnum\expandafter\bidi@parse@ver@#100\@nil<\expandafter\bidi@parse@ver@#200\@nil
5548     \expandafter\@secondoftwo
5549   \else
5550     \expandafter\@firstoftwo
5551   \fi
5552 }
5553 \newcommand*{\bidi@parse@ver@}[1]{\bidi@parse@ver0#1}
5554 \def\bidi@parse@ver#1.#2.#3#4#5\@nil{%
5555   \if\relax#2\relax\else#1\fi#2#3#4
5556 }
5557 \newcommand*{\IfPackageVersionAtMostTF}[1]{%
5558   \expandafter\@if@ver@pkg@most\csname #1@version\endcsname
5559 }
5560 \newcommand*{\@if@ver@pkg@most}[2]{%
5561   \ifnum\expandafter\bidi@parse@ver@#100\@nil>\expandafter\bidi@parse@ver@#200\@nil
5562     \expandafter\@secondoftwo
5563   \else
5564     \expandafter\@firstoftwo
5565   \fi
5566 }
5567 \newcommand*{\IfPackageVersionTF}[1]{%
5568   \expandafter\@if@ver@pkg@\csname #1@version\endcsname
5569 }
5570 \newcommand*{\@if@ver@pkg@}[2]{%
5571   \ifnum\expandafter\bidi@parse@ver@#100\@nil=\expandafter\bidi@parse@ver@#200\@nil

```



```

5572 \expandafter\@firstoftwo
5573 \else
5574 \expandafter\@secondoftwo
5575 \fi
5576 }
5577
5578 \newcommand*{\if@bidi@csdef}[1]{%
5579 \ifcsname#1\endcsname
5580 \expandafter\@firstoftwo
5581 \else
5582 \expandafter\@secondoftwo
5583 \fi}
5584 \newcommand*{\if@bidi@csundef}[1]{%
5585 \ifcsname#1\endcsname
5586 \expandafter\ifx\csname#1\endcsname\relax
5587 \expandafter\expandafter
5588 \expandafter\@firstoftwo
5589 \else
5590 \expandafter\expandafter
5591 \expandafter\@secondoftwo
5592 \fi
5593 \else
5594 \expandafter\@firstoftwo
5595 \fi}
5596 \newcommand{\if@bidi@def}[1]{%
5597 \ifdefined#1%
5598 \expandafter\@firstoftwo
5599 \else
5600 \expandafter\@secondoftwo
5601 \fi}
5602 \newcommand{\if@bidi@undef}[1]{%
5603 \ifdefined#1%
5604 \ifx#1\relax
5605 \expandafter\expandafter
5606 \expandafter\@firstoftwo
5607 \else
5608 \expandafter\expandafter
5609 \expandafter\@secondoftwo
5610 \fi
5611 \else
5612 \expandafter\@firstoftwo
5613 \fi}
5614 \newcommand{\if@bidi@blank}[1]{% from url.sty
5615 \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5616 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
5617 \newcommand{\bidi@notblank}[1]{%
5618 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5619 \newcommand{\if@bidi@defmacro}{}
5620 \long\edef\if@bidi@defmacro#1{%
5621 \noexpand\expandafter\noexpand\bidi@ifdefmacro
5622 \noexpand\meaning#1\detokenize{macro}:&}
5623 \edef\bidi@ifdefmacro{%
5624 \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5625 \bidi@ifdefmacro{\bidi@notblank{#2}}

```





```

5626 \newcommand*{\if@bidi@csmacro}[1]{%
5627   \if@bidi@csdef{#1}
5628     {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5629     {\@secondoftwo}}
5630 \newcommand{\if@bidi@defprimitive}[1]{%
5631   \ifprimitive#1%
5632     \expandafter\@firstoftwo
5633   \else
5634     \expandafter\@secondoftwo
5635   \fi}
5636 \newcommand{\if@bidi@csprimitive}[1]{%
5637   \begingroup\expandafter\expandafter\expandafter\endgroup%
5638   \expandafter\ifprimitive\csname#1\endcsname%
5639   \expandafter\@firstoftwo
5640   \else
5641     \expandafter\@secondoftwo
5642   \fi}
5643 \newcommand*{\bidi@csdefcs}[2]{%
5644   \expandafter\@ifdefinable \csname#1\endcsname{%
5645     \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5646   \newcommand*{\bidi@csletcs}[2]{%
5647     \expandafter\@ifdefinable \csname#1\endcsname{%
5648       \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}
5649     \newcommand*{\bidi@cslet}[2]{%
5650       \expandafter\@ifdefinable \csname#1\endcsname{%
5651         \expandafter\let\csname#1\endcsname#2}}
5652   \newcommand{\bidi@namelongdef}[1]{%
5653     \long\expandafter\def\csname #1\endcsname}
5654   \newcommand{\bidi@namelonggdef}[1]{%
5655     \long\expandafter\gdef\csname #1\endcsname}
5656   \newcommand{\bidi@namelongedef}[1]{%
5657     \long\expandafter\edef\csname #1\endcsname}
5658   \newcommand{\bidi@namelongxdef}[1]{%
5659     \long\expandafter\xdef\csname #1\endcsname}
5660   \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5661   \def\bidi@ensure@new@command#1{%
5662     \begingroup \escapechar\m@ne\xdef\@gtempa{\{string#1\}}\endgroup
5663     \expandafter\if@bidi@csundef\@gtempa
5664       {\new@command#1}{\relax%
5665       \let\@ifdefinable\@rc@ifdefinable%
5666       \new@command#1}}
5667   \def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
5668
5669 \protected\def\bidi@error{\PackageError{bidi}}
5670 \protected\def\bidi@warning{\PackageWarning{bidi}}
5671 \protected\def\bidi@warningnoline{\PackageWarningNoLine{bidi}}
5672 \protected\def\bidi@info{\PackageInfo{bidi}}
5673
5674 \def\bidi@pos#1#2#3#4{\bidi@namegdef\bidi@#1pos@#2@#3}{#4}}
5675
5676 \newcount\bidi@poscount
5677
5678 \newcommand*{\WriteStartXPostaux}{%
5679   \global\advance\bidi@poscount\@ne

```



```

5680 \edef\@tempa{%
5681 \write\@auxout{%
5682 \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5683 }%
5684 }%
5685 \ifvmode
5686 \leavevmode
5687 \fi
5688 \if@RTL
5689 \if@filesw
5690 \@tempa
5691 \fi
5692 \pdfsavepos
5693 \else
5694 \pdfsavepos
5695 \if@filesw
5696 \@tempa
5697 \fi
5698 \fi
5699 \if@bidi@csundef{bidi@xpos@@start@\number\bidiposcount}{%
5700 \PackageWarningNoLine{biditools}{%
5701 The start x position '\number\bidiposcount' is not known yet.
5702 Rerun to get this x position%
5703 }%
5704 }{}%
5705 }
5706
5707 \newcommand*\WriteEndXPostoaux{%
5708 \edef\@tempa{%
5709 \write\@auxout{%
5710 \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5711 }%
5712 }%
5713 \if@RTL
5714 \if@filesw
5715 \@tempa
5716 \fi
5717 \pdfsavepos
5718 \else
5719 \pdfsavepos
5720 \if@filesw
5721 \@tempa
5722 \fi
5723 \fi
5724 \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{%
5725 \PackageWarningNoLine{biditools}{%
5726 The end x position '\number\bidiposcount' is not known yet.
5727 Rerun to get this x position%
5728 }%
5729 }{}%
5730 }
5731
5732 \newcommand*\WriteStartYPostoaux{%
5733 \global\advance\bidiposcount\@ne

```



```

5734 \edef\@tempa{%
5735 \write\@auxout{%
5736 \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdfasty
5737 }%
5738 }%
5739 \ifvmode
5740 \leavevmode
5741 \fi
5742 \if@RTL
5743 \if@filesw
5744 \@tempa
5745 \fi
5746 \pdfsavepos
5747 \else
5748 \pdfsavepos
5749 \if@filesw
5750 \@tempa
5751 \fi
5752 \fi
5753 \if@bidi@csundef{bidi@ypos@@start@\number\bidiposcount}{%
5754 \PackageWarningNoLine{biditools}{%
5755 The start y position ``\number\bidiposcount' is not known yet.
5756 Rerun to get this y position%
5757 }%
5758 }{}%
5759 }
5760
5761 \newcommand*\WriteEndYPostoaux{%
5762 \edef\@tempa{%
5763 \write\@auxout{%
5764 \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdfasty
5765 }%
5766 }%
5767 \if@RTL
5768 \if@filesw
5769 \@tempa
5770 \fi
5771 \pdfsavepos
5772 \else
5773 \pdfsavepos
5774 \if@filesw
5775 \@tempa
5776 \fi
5777 \fi
5778 \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{%
5779 \PackageWarningNoLine{biditools}{%
5780 The end y position ``\number\bidiposcount' is not known yet.
5781 Rerun to get this y position%
5782 }%
5783 }{}%
5784 }
5785
5786 \newcommand*\WriteStartXYPostoaux{%
5787 \global\advance\bidiposcount\@ne

```



```

5788 \edef\@tempa{%
5789 \write\@auxout{%
5790 \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5791 }%
5792 \write\@auxout{%
5793 \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5794 }%
5795 }%
5796 \ifvmode
5797 \leavevmode
5798 \fi
5799 \if@RTL
5800 \if@filesw
5801 \@tempa
5802 \fi
5803 \pdfsavepos
5804 \else
5805 \pdfsavepos
5806 \if@filesw
5807 \@tempa
5808 \fi
5809 \fi
5810 \if@bidi@csundef{bidi@xpos@@start@\number\bidiposcount}{%
5811 \PackageWarningNoLine{biditools}{%
5812 The start x position ``\number\bidiposcount' is not known yet.
5813 Rerun to get this x position%
5814 }%
5815 }{}%
5816 \if@bidi@csundef{bidi@ypos@@start@\number\bidiposcount}{%
5817 \PackageWarningNoLine{biditools}{%
5818 The start y position ``\number\bidiposcount' is not known yet.
5819 Rerun to get this y position%
5820 }%
5821 }{}%
5822 }
5823
5824 \newcommand*\WriteEndXYPostoaux{%
5825 \edef\@tempa{%
5826 \write\@auxout{%
5827 \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5828 }%
5829 \write\@auxout{%
5830 \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5831 }%
5832 }%
5833 \if@RTL
5834 \if@filesw
5835 \@tempa
5836 \fi
5837 \pdfsavepos
5838 \else
5839 \pdfsavepos
5840 \if@filesw
5841 \@tempa

```



```

5842 \fi
5843 \fi
5844 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5845     \PackageWarningNoLine{biditools}{%
5846         The end x position ` \number\bidi@poscount' is not known yet.
5847         Rerun to get this x position%
5848     }%
5849 }{}%
5850 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5851     \PackageWarningNoLine{biditools}{%
5852         The end y position ` \number\bidi@poscount' is not known yet.
5853         Rerun to get this y position%
5854     }%
5855 }{}%
5856 }
5857
5858 \newcommand*{\currentposxwidth}{%
5859     \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{\z@}
5860     {%
5861         \ifnum\csname bidi@xpos@@start@\number\bidi@poscount
5862         \endcsname < \csname bidi@xpos@@end@\number\bidi@poscount
5863         \endcsname
5864         \dimexpr \csname bidi@xpos@@end@\number\bidi@poscount
5865         \endcsname sp - \csname bidi@xpos@@start@\number\bidi@poscount
5866         \endcsname sp\relax
5867     \else
5868         \dimexpr \csname bidi@xpos@@start@\number\bidi@poscount
5869         \endcsname sp - \csname bidi@xpos@@end@\number\bidi@poscount
5870         \endcsname sp\relax
5871     \fi
5872 }%
5873 }
5874
5875 \newcommand*{\currentposyheight}{%
5876     \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{\z@}
5877     {%
5878         \dimexpr \csname bidi@ypos@@start@\number\bidi@poscount
5879         \endcsname sp - \csname bidi@ypos@@end@\number\bidi@poscount
5880         \endcsname sp\relax
5881     }%
5882 }
5883
5884
5885
5886 \newcommand*{\setbaselineskip}[1]{%
5887     \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5888     \selectfont
5889 }
5890
5891
5892 \newcommand*{\bidi@newrobustcmd}{%
5893     \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5894
5895     \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}

```



```

5896
5897 \def\bidinewcommand#1[#2]{%
5898   \@ifnextchar[%
5899     {\bidixargdef#1[#2]}
5900     {\ifx\l@ngrel@x\relax
5901       \let\l@ngrel@x\protected
5902       \else
5903         \protected\def\l@ngrel@x{\protected\long}%
5904       \fi
5905       \@argdef#1[#2]}}
5906
5907 \long\def\bidixargdef#1[#2][#3]#4{%
5908   \@ifdefinable#1{%
5909     \expandafter\protected
5910     \expandafter\def
5911     \expandafter#1%
5912     \expandafter{%
5913       \expandafter\@testopt
5914       \csname\string#1\endcsname{#3}}%
5915     \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}}
5916
5917 \bidinewrobustcmd*{\bidirenewrobustcmd}{\@star@or@long\bidirenew@command}
5918
5919 \def\bidirenew@command#1{%
5920   \if@bidi@undef{#1}
5921     {\bidierror{\string#1 undefined}\@ehc}
5922     {}%
5923   \let\@ifdefinable\@rc@ifdefinable
5924   \bidinew@command#1}
5925
5926
5927
5928 \bidinewrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidiprove@command}
5929
5930 \def\bidiprove@command#1{%
5931   \if@bidi@undef{#1}
5932     {\def\reserved@a{\bidinew@command#1}}
5933     {\def\reserved@a{\bidirenew@command\reserved@a}}%
5934   \reserved@a}
5935
5936 \newcommand*{\bidicsuse}[1]{%
5937   \ifcsname#1\endcsname
5938     \csname#1\expandafter\endcsname
5939   \fi}
5940
5941 \newcommand{\bidieexpandonce}[1]{%
5942   \unexpanded\expandafter{#1}}
5943
5944 \def\bidiprotected{%
5945   \let\@@protect\protect
5946   \let\protect\@unexpandable@protect
5947   \afterassignment\restore@protect}
5948
5949 \bidinewrobustcmd{\bidi@appto}[2]{%

```



```

5950 \if@bidi@undef{#1}
5951   {\edef#1{\unexpanded{#2}}}
5952   {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5953 \bidi@newrobustcmd{\bidi@eappto}[2]{%
5954   \if@bidi@undef{#1}
5955     {\edef#1{#2}}
5956     {\edef#1{\bidi@expandonce#1#2}}}
5957 \bidi@newrobustcmd{\bidi@gappto}[2]{%
5958   \if@bidi@undef{#1}
5959     {\xdef#1{\unexpanded{#2}}}
5960     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5961 \bidi@newrobustcmd{\bidi@xappto}[2]{%
5962   \if@bidi@undef{#1}
5963     {\xdef#1{#2}}
5964     {\xdef#1{\bidi@expandonce#1#2}}}
5965
5966 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
5967 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
5968
5969
5970
5971 \bidi@newrobustcmd{\bidi@preto}[2]{%
5972   \if@bidi@undef{#1}
5973     {\edef#1{\unexpanded{#2}}}
5974     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5975 \bidi@newrobustcmd{\bidi@epreto}[2]{%
5976   \if@bidi@undef{#1}
5977     {\edef#1{#2}}
5978     {\edef#1{#2\bidi@expandonce#1}}}
5979 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
5980   \if@bidi@undef{#1}
5981     {\xdef#1{\unexpanded{#2}}}
5982     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5983 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
5984   \if@bidi@undef{#1}
5985     {\xdef#1{#2}}
5986     {\xdef#1{#2\bidi@expandonce#1}}}
5987
5988 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
5989 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
5990
5991
5992
5993 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
5994 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
5995 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
5996 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
5997 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
5998 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
5999
6000
6001
6002 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
6003 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}

```



```

6004 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
6005 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
6006 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
6007 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
6008
6009
6010
6011 \bidi@newrobustcmd{\if@bidi@patchable}{%
6012   \bidi@dbg@trce\if@bidi@patchable
6013   \begingroup
6014   \@makeother\%
6015   \@ifstar\bidi@ifpatchable@i\bidi@ifpatchable}
6016
6017 \long\def\bidi@ifpatchable#1#2{%
6018   \endgroup
6019   \bidi@dbg@init#1%
6020   \if@bidi@undef{#1}
6021     {\bidi@dbg@fail{def}\@secondoftwo}
6022     {\bidi@dbg@info{def}%
6023       \if@bidi@defmacro{#1}
6024         {\bidi@dbg@info{mac}%
6025           \bidi@ifscanable{#1}
6026             {\bidi@ifhashcheck{#2}
6027               {\bidi@dbg@info{tok}%
6028                 \bidi@ifpattern#1{#2}
6029                   {\bidi@dbg@info{pat}%
6030                     \bidi@dbg@info{pos}\@firstoftwo}
6031                     {\bidi@dbg@fail{pat}\@secondoftwo}}
6032                   {\bidi@dbg@fail{hsh}\@secondoftwo}}
6033                   {\bidi@dbg@fail{tok}\@secondoftwo}}
6034                   {\bidi@dbg@fail{mac}\@secondoftwo}}}
6035
6036 \long\def\bidi@ifpatchable@i#1{%
6037   \endgroup
6038   \bidi@dbg@init#1%
6039   \if@bidi@undef{#1}
6040     {\bidi@dbg@fail{def}\@secondoftwo}
6041     {\bidi@dbg@info{def}%
6042       \if@bidi@defmacro{#1}
6043         {\bidi@dbg@info{mac}%
6044           \if@bidi@defparam{#1}
6045             {\bidi@dbg@info{prm}%
6046               \bidi@ifscanable{#1}
6047                 {\bidi@dbg@info{tok}%
6048                   \bidi@dbg@info{pos}\@firstoftwo}
6049                   {\bidi@dbg@fail{tok}\@secondoftwo}}
6050                 {\bidi@dbg@info{prl}%
6051                   \if@bidi@defprotected{#1}
6052                     {\bidi@dbg@info{pro}}
6053                     {}%
6054                   \bidi@dbg@info{pos}\@firstoftwo}}
6055                 {\bidi@dbg@fail{mac}\@secondoftwo}}}
6056
6057 \bidi@newrobustcmd*{\bidi@patchcmd}{%

```





```

6058 \bidi@dbg@trce\bidi@patchcmd
6059 \begingroup
6060 \@makeother\#%
6061 \bidi@@patchcmd}
6062
6063 \newcommand{\bidi@patchcmd}[4][#####1]{%
6064 \bidi@ifpatchable#2{#3}
6065 {\bidi@dbg@succ{ret}}%
6066 \begingroup
6067 \edef\bidi@resrvda{%
6068 \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
6069 #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb####3&}}%
6070 \def\noexpand\bidi@resrvdb####1\detokenize{#3}####2&{%
6071 ####1\detokenize{#4}####2}%
6072 \edef\noexpand\bidi@resrvda{%
6073 \noexpand\bidi@resrvda\meaning#2&}}%
6074 \bidi@resrvda
6075 \bidi@patchcmd@scantoks\bidi@resrvda
6076 \let#2\bidi@resrvda
6077 \bidi@undef\bidi@resrvda
6078 \@firstoftwo}
6079 {\@secondoftwo}}
6080
6081 \def\bidi@patchcmd@scantoks#1{%
6082 \edef\bidi@resrvda{\endgroup
6083 \unexpanded{\makeatletter\scantokens}{#1}%
6084 \catcode\number`\@=\the\catcode`\@ \relax}%
6085 \bidi@resrvda}
6086
6087 \protected\def\bidi@ifscanable#1{%
6088 \begingroup
6089 \edef\bidi@resrvda{%
6090 \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
6091 ####1\def\string\bidi@resrvda####2{####3}}%
6092 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
6093 \bidi@resrvda
6094 \makeatletter
6095 \scantokens\expandafter{\bidi@resrvda}%
6096 \expandafter\endgroup\ifx#1\bidi@resrvda
6097 \expandafter\@firstoftwo
6098 \else
6099 \expandafter\@secondoftwo
6100 \fi}
6101
6102
6103 \protected\long\def\bidi@ifhashcheck#1{%
6104 \begingroup
6105 \edef\bidi@resrvda{\detokenize{#1}}%
6106 \expandafter\endgroup
6107 \expandafter\bidi@ifhashcheck@i\meaning\bidi@resrvda&}
6108
6109 \edef\bidi@ifhashcheck@i#1&{%
6110 \noexpand\expandafter
6111 \noexpand\bidi@ifhashcheck@ii

```



```

6112 \noexpand\strip@prefix#1\string#\string#&}
6113
6114 \edef\bidi@ifhashcheck@ii{%
6115 \def\noexpand\bidi@ifhashcheck@ii##1\string#\string###2&}
6116 \bidi@ifhashcheck@ii{\if@bidi@blank{#2}}
6117
6118
6119 \protected\long\def\bidi@ifpattern#1#2{%
6120 \begingroup
6121 \edef\bidi@resrvda{%
6122 \def\noexpand\bidi@resrvda####1\detokenize{#2}###2&{%
6123 \endgroup\noexpand\noexpand\noexpand\noexpand\if@bidi@blank{###2}}}%
6124 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda
6125 \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
6126 \noexpand\bidi@resrvda}
6127 \bidi@resrvda\@secondoftwo\@firstoftwo}
6128
6129
6130 \newcommand{\if@bidi@defparam}{%
6131 \long\edef\if@bidi@defparam#1{%
6132 \noexpand\expandafter\noexpand\bidi@ifdefparam
6133 \noexpand\meaning#1\detokenize{macro}:->&}
6134 \edef\bidi@ifdefparam{%
6135 \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
6136 \bidi@ifdefparam{\bidi@notblank{#2}}
6137
6138
6139 \newcommand{\if@bidi@defprotected}{%
6140 \long\edef\if@bidi@defprotected#1{%
6141 \noexpand\expandafter\noexpand\bidi@ifdefprotected
6142 \noexpand\meaning#1\string\protected&}
6143 \edef\bidi@ifdefprotected{%
6144 \def\noexpand\bidi@ifdefprotected##1\string\protected##2&}
6145 \bidi@ifdefprotected{\bidi@notblank{#2}}
6146
6147
6148 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
6149 \bidi@newrobustcmd{\bidi@csundef}[1]{%
6150 \expandafter\let\csname #1\endcsname\bidi@undefined
6151 }
6152
6153 \let\bidi@dbg@trce\@gobble
6154 \let\bidi@dbg@init\@gobble
6155 \let\bidi@dbg@info\@gobble
6156 \let\bidi@dbg@succ\@gobble
6157 \let\bidi@dbg@fail\@gobble
6158
6159
6160
6161 \bidi@newrobustcmd*{\bidi@apptocmd}{%
6162 \bidi@dbg@trce\bidi@apptocmd
6163 \begingroup
6164 \@makeother\#%
6165 \bidi@hooktocmd\bidi@append}

```



```

6166
6167
6168
6169 \bidi@newrobustcmd*{\bidi@pretocmd}{%
6170   \bidi@dbg@trce\bidi@pretocmd
6171   \begingroup
6172   \@makeother\#%
6173   \bidi@hooktocmd\bidi@prepend}
6174
6175 \long\def\bidi@hooktocmd#1#2#3{%
6176   \endgroup
6177   \bidi@dbg@init#2%
6178   \if@bidi@undef{#2}
6179     {\bidi@dbg@fail{def}\@secondoftwo}
6180     {\bidi@dbg@info{def}%
6181       \if@bidi@defmacro{#2}
6182         {\bidi@dbg@info{mac}%
6183           \if@bidi@defparam{#2}
6184             {\bidi@dbg@info{prm}%
6185               \bidi@ifscanable{#2}
6186                 {\bidi@ifhashcheck{#3}
6187                   {\bidi@dbg@info{tok}%
6188                     \bidi@dbg@succ{ret}%
6189                     \bidi@hooktocmd@i#1#2{#3}%
6190                     \@firstoftwo}
6191                   {\bidi@dbg@fail{hsh}\@secondoftwo}}
6192                 {\bidi@dbg@fail{tok}\@secondoftwo}}
6193             {\bidi@dbg@info{prl}%
6194               \if@bidi@defprotected{#2}
6195                 {\bidi@dbg@info{pro}%
6196                   \bidi@dbg@succ{red}%
6197                   \protected}
6198                 {\bidi@dbg@succ{red}}}%
6199             \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
6200             \@firstoftwo}}
6201     {\bidi@dbg@fail{mac}\@secondoftwo}}
6202
6203 \long\def\bidi@hooktocmd@i#1#2#3{%
6204   \begingroup
6205   \edef\bidi@resrvda{%
6206     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6207       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}%
6208     \edef\noexpand\bidi@resrvda{%
6209       \noexpand\bidi@resrvda\meaning#2&}}%
6210   \bidi@resrvda
6211   \bidi@patchcmd@scantoks\bidi@resrvda
6212   \let#2\bidi@resrvda
6213   \bidi@undef\bidi@resrvda}
6214
6215 \long\def\bidi@append#1#2{#1#2}
6216 \long\def\bidi@prepend#1#2{#2#1}
6217
6218 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6219 %\newcommand*{\bidi@endpreamblehook}{

```



```

6220
6221 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}}%
6222
6223 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
6224 \newcommand*{\bidi@beforeoutputpageshipouthook}{}
6225
6226 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6227 \newcommand*{\bidi@beforeheaderhook}{}
6228
6229 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutput}
6230 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{}
6231
6232 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutputpa}
6233 \newcommand*{\bidi@afteroutputboxoutputpagehook}{}
6234
6235 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6236 \newcommand*{\bidi@beforefooterhook}{}
6237
6238 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6239 \newcommand*{\bidi@afterfooterhook}{}
6240
6241
6242 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipoutho}
6243 \newcommand*{\bidi@afteroutputpageshipouthook}{}
6244
6245 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6246 \newcommand*{\bidi@atendoutputpagehook}{}
6247
6248 %\bidi@preto\document{%
6249 % \endgroup
6250 % \let\bidi@AtEndPreamble\@firstofone
6251 % \bidi@endpreamblehook
6252 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6253 % \bidi@undef\bidi@endpreamblehook
6254 % \beginingroup}
6255
6256 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6257 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6258
6259 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6260 %\newcommand*{\bidi@afterendpreamblehook}{}
6261
6262 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}}%
6263
6264 %\bidi@appto\document{%
6265 % \let\bidi@AfterEndPreamble\@firstofone
6266 % \bidi@afterendpreamblehook
6267 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6268 % \bidi@undef\bidi@afterendpreamblehook
6269 % \ignorespaces}
6270
6271 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterenddocume}
6272 \newcommand*{\bidi@afterenddocumentchecklabelsrerunhook}{}
6273

```



```

6274 \bidi@patchcmd\enddocument
6275 {\fi}
6276 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
6277 \bidi@afterenddocumentchecklabelssrerunhook
6278 \fi}
6279 {}
6280 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6281
6282 \AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}
6283
6284 \bidi@newrobustcmd*{\bidi@AfterLastShipout}{\bidi@gappto\bidi@afterlastshipouthook}
6285 \newcommand*{\bidi@afterlastshipouthook}{}
6286
6287 \bidi@patchcmd\enddocument
6288 {\clearpage}
6289 {\clearpage
6290 \let\bidi@AfterLastShipout\@firstofone
6291 \bidi@afterlastshipouthook}
6292 {}
6293 {\let\bidi@clearpage\clearpage
6294 \def\clearpage{%
6295 \bidi@clearpage
6296 \let\bidi@AfterLastShipout\@firstofone
6297 \bidi@afterlastshipouthook}}
6298
6299 %\bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterenddocumenthook}
6300 \newcommand*{\bidi@afterenddocumenthook}{}
6301
6302 \bidi@newrobustcmd*{\bidi@AfterEndDocument}{\AddToHook{enddocument/end}}%
6303
6304 %\bidi@patchcmd\enddocument
6305 % {\deadcycles}
6306 % {\let\bidi@AfterEndDocument\@firstofone
6307 % \bidi@afterenddocumenthook
6308 % \deadcycles}
6309 % {}
6310 % {\let\bidi@@end\@end
6311 % \def\@end{%
6312 % \let\bidi@AfterEndDocument\@firstofone
6313 % \bidi@afterenddocumenthook
6314 % \bidi@@end}}
6315
6316 \bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
6317 \bidi@csgappto{\bidi@begin@#1@hook}}
6318
6319 % Patch \begin<space> and \end<space> in newer LaTeX releases
6320 % \begin and \end in older ones.
6321 \expandafter\bidi@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6322 {\csname #1\endcsname}
6323 {\bidi@csuse{\bidi@begin@#1@hook}%
6324 \csname #1\endcsname}
6325 {}
6326 {\bidi@warning{%
6327 Patching '\string\begin' failed!\MessageBreak

```



```

6328 '\string\bid@AtBeginEnvironment' will not work\@gobble}}
6329
6330
6331
6332 \bid@newrobustcmd{\bid@AtEndEnvironment}[1]{%
6333 \bid@csgappto{@bid@end@#1@hook}}
6334
6335 \expandafter\bid@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6336 {\csname end#1\endcsname}
6337 {\bid@csuse{@bid@end@#1@hook}%
6338 \csname end#1\endcsname}
6339 {}
6340 {\bid@warning{%
6341 Patching '\string\end' failed!\MessageBreak
6342 '\string\bid@AtEndEnvironment' will not work\@gobble}}
6343
6344
6345
6346 \bid@newrobustcmd{\bid@BeforeBeginEnvironment}[1]{%
6347 \bid@csgappto{@bid@beforebegin@#1@hook}}
6348
6349 \expandafter\bid@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6350 {\bid@csuse{@bid@beforebegin@#1@hook}}
6351 {}
6352 {\bid@warning{%
6353 Patching '\string\begin' failed!\MessageBreak
6354 '\string\bid@BeforeBeginEnvironment' will not work\@gobble}}
6355
6356 \bid@newrobustcmd{\bid@AfterEndEnvironment}[1]{%
6357 \bid@csgappto{@bid@afterend@#1@hook}}
6358
6359 \expandafter\bid@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6360 {\if@ignore}
6361 {\bid@csuse{@bid@afterend@#1@hook}%
6362 \if@ignore}
6363 {}
6364 {\bid@warning{%
6365 Patching '\string\end' failed!\MessageBreak
6366 '\string\bid@AfterEndEnvironment' will not work\@gobble}}
6367
6368 \def\bid@namedef#1{\expandafter\def\csname #1\endcsname}
6369 \def\bid@namegdef#1{\expandafter\gdef\csname #1\endcsname}
6370 \def\bid@nameedef#1{\expandafter\edef\csname #1\endcsname}
6371 \def\bid@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6372
6373 % From David Carlisle:
6374 % The \@stpelt redefinition below belongs to Heiko Oberdiek
6375 % See also https://github.com/ho-tex/oberdiek/issues/26
6376
6377 \let\@bid@stepcounter\stepcounter
6378 \let\@bid@stpelt\@stpelt
6379
6380 \def\@stpelt#1{%
6381 \ifcsname bid@reset@#1@perpage\endcsname

```



```

6382 \begingroup
6383 \let\stepcounter\@bidi@stepcounter
6384 \@bidi@@stpelt{#1}%
6385 \endgroup
6386 \expandafter\@gobbletwo
6387 \fi
6388 \@bidi@@stpelt{#1}%
6389 }
6390
6391 \bidi@pretocmd\stepcounter
6392 {%
6393 \if@bidi@csundef{bidi@stepcounterhook@@#1}{%
6394 \csname bidi@stepcounterhook@@#1\endcsname
6395 }%
6396 }-}%
6397 {\PackageWarning{biditools}{Patching '\string\stepcounter' failed}}
6398
6399 \chardef\bidi@backslash`\\
6400 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
6401
6402 % anonymous control sequences
6403 \newcount\bidi@tempcountb
6404 \newtoks\bidi@temptoksa
6405 \newtoks\bidi@temptoksb
6406
6407 % Catcode (re)storing
6408 %
6409 \def\bidi@storecatcode#1%
6410 {\escapechar\m@ne
6411 \bidi@csarg\edef{bidi@restorecatcode\string#1}%
6412 {\catcode`\string#1=
6413 \the\catcode\expandafter`\string#1}%
6414 \catcode\expandafter`\string#1=12\relax
6415 \escapechar`\\ \relax}
6416 \def\bidi@restorecatcode#1%
6417 {\escapechar\m@ne
6418 \csname bidi@restorecatcode\string#1\endcsname
6419 \escapechar`\\ \relax}
6420
6421 % Construct a control sequence inside \edef
6422 %
6423 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6424
6425 % Construct a control sequence out of #2, and give it to #1
6426 %
6427 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6428
6429 % Pick an escapecharacter
6430 % this presumes that its argument is a character.
6431 %
6432 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6433
6434 % Equality of strings.
6435 % the fast approach: does not work in expansion-only environment.

```



```

6436 %
6437 \def\bid@EqualString#1#2{00\fi\def\bid@eqs@a{#1}\def\bid@eqs@b{#2}%
6438     \ifx\bid@eqs@a\bid@eqs@b}
6439
6440 % Test by expansion only
6441 %
6442 \def\bid@EqualStringX#1#2{00\fi
6443     \csname if\@bid@EqualStringX#1&#2&$\endcsname}
6444 \def\@bid@EqualStringX#1#2$#3#4${\ifx#1#3%
6445     \ifx#1&true\else\bid@hop@ES\@bid@EqualStringX#2$#4$\fi
6446     \else false\fi}
6447 \def\bid@hop@ES#1\fi#2\fi{\fi\fi#1}
6448
6449 % Lexicographic ordering
6450 % note the use of \def
6451 % also note the characters 0,127,255 that are used,
6452 % these are not supposed to appear in the strings
6453 %
6454 {\catcode0=12 \catcode255=12 \catcode127=12
6455 \gdef\bid@StringBeforeNC#1#2{00\fi
6456     \bid@CharsBefore#1^^@^^?#2^^ff^^?}%
6457 \gdef\bid@CharsBeforeNC#1#2^^?#3#4^^?{%
6458     \ifcat#1\relax\def\bid@next{\bid@CharsBefore#2^^@^^?#3#4^^ff^^?}%
6459     \else\ifcat#3\relax\def\bid@next{\bid@CharsBefore#1#2^^@^^?#4^^ff^^?}%
6460     \else\ifnum\lccode`#1<\lccode`#3
6461         \def\bid@next{\csname iftrue\endcsname}%
6462     \else\ifnum\lccode`#1>\lccode`#3
6463         \def\bid@next{\csname iffalse\endcsname}%
6464     \else\def\bid@next{\bid@CharsBefore#2^^?#4^^?}%
6465     \fi \fi \fi \fi
6466     \bid@next}
6467 \gdef\bid@StringBefore#1#2{00\fi
6468     \bid@CharsBefore#1^^@^^?#2^^ff^^?}%
6469 \gdef\bid@CharsBefore#1#2^^?#3#4^^?{%
6470     \ifnum`#1<`#3
6471         \def\bid@next{\csname iftrue\endcsname}%
6472     \else\ifnum`#1>`#3
6473         \def\bid@next{\csname iffalse\endcsname}%
6474     \else\def\bid@next{\bid@CharsBefore#2^^?#4^^?}%
6475     \fi\fi
6476     \bid@next}
6477 }
6478
6479 % Null argument test
6480 %
6481 \def\bid@empty{}
6482 \def\bid@ifempty#1{00\fi\expandafter\ifx\csname bid@#1@null\endcsname\bid@@null}
6483 \def\bid@ifEmptyX#1{\expandafter\ifx\csname bid@#1@null\endcsname\bid@@null}
6484 %\def\bid@ifEmpty#1{\def\bid@cs@a{#1}\ifx\bid@cs@a\bid@empty}
6485 \def\bid@IsEmptyList#1{00\fi\def\bid@cs@a{#1}\ifx\cs@a\bid@empty}
6486
6487 % Next character test
6488 %
6489 \def\bid@NextChar#1#2#3{00\fi

```





```

6490 \let\bidixnxt@ch#1\def\bidixnxt@a{#2}\def\bidixnxt@b{#3}%
6491 \futurelet\bidixnxt@c\@bidixfnxtc}
6492 \def\bidixifNextChar#1#2#3{%
6493 \let\bidixnxt@ch#1\def\bidixnxt@a{#2}\def\bidixnxt@b{#3}%
6494 \futurelet\bidixnxt@c\@bidixfnxtc}
6495 \def\@bidixfnxtc{\ifx\bidixnxt@ch\bidixnxt@c \expandafter\bidixnxt@a
6496 \else \expandafter\bidixnxt@b \fi}
6497
6498 % Test for defined-ness of string as control sequence.
6499 % works inside \edef
6500 %
6501 \def\bidixundefinedcs#1{00\fi\bidixcsarg\ifx{#1}\relax}
6502
6503 % Define uniquely defined dummy macros,
6504 % usually to serve as bumper blocks at the end of a list
6505 %
6506 \newcount\bidixdummies
6507 \def\DefNewDummy#1{
6508 \if\bidixundefinedcs{#1}\bidixcsarg\edef{#1}{\bidixdum\the\bidixdummies}
6509 \advance\bidixdummies\@ne
6510 \else
6511 \bidixerror{Attempt at second definition of `#1'}
6512 \fi}
6513
6514 % string case statement
6515 % use: \bidixswitch \iftest{...} in:
6516 % item1 action1
6517 % ...
6518 % itemn actionn
6519 % default defaultaction [optional]
6520 % \endbidixswitch
6521 % inspired by Jonathan Fine: Some Basic Control Macros
6522 % Tugboat 12 #4
6523 %
6524 \let\@bidixfi\fi \let\endbidixswitch\relax \DefNewDummy{\bidixdefault}
6525 \def\bidixswitch@exit #1 \@bidixfi #2 \endbidixswitch {\fi #1}
6526 \def\bidixswitch #1#2#3{\bidixcsarg\ifx{#2}\bidixdefault\bidixswitch@exit #3 \@bidixfi
6527 #1{#2}\bidixswitch@exit #3 \@bidixfi
6528 \bidixswitch {#1}
6529 }
6530 % this version puts the test object in {}
6531 \def\bidixoswitch #1 in: #2 #3; {\bidixcsarg\ifx{#2}\bidixdefault\bidixswitch@exit #3 \@bidixfi
6532 #1{#2}\bidixswitch@exit #3 \@bidixfi
6533 \bidixswitch #1 in:
6534 }
6535 % this version assumes that the test object is just one character
6536 \def\bidixcswitch #1 in: #2 #3; {\bidixcsarg\ifx{#2}\bidixdefault\bidixswitch@exit #3 \@bidixfi
6537 #1#2\bidixswitch@exit #3 \@bidixfi
6538 \bidixcswitch #1 in:
6539 }
6540 % this version assumes that the test object can have an optional space
6541 \def\bidixbswitch #1 in: #2 #3; {\bidixcsarg\ifx{#2}\bidixdefault\bidixswitch@exit #3 \@bidixfi
6542 #1#2 \bidixswitch@exit #3 \@bidixfi
6543 \bidixbswitch #1 in:

```



```

6544 }
6545 % this version can cope with significant spaces at the start of #3;
6546 % #2 is macro argument
6547 \def\bidimswitch #1 in: #2:#3; {\bidicsarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi
6548 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6549 \bidimswitch #1 in:
6550 }
6551 % idem; #2 does not have to be enclosed in braces
6552 \def\bidi@fswitch #1 in: #2:#3; {\bidicsarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi
6553 #1#2 \bidi@switch@exit #3 \@bidi@fi
6554 \bidi@fswitch #1 in:
6555 }
6556
6557 % Routines for taking the value of a string:
6558 % if the string is defined as control sequence
6559 % take the value of that, otherwise take the string itself
6560
6561 % String or value of control sequence
6562 %
6563 \def\bidicw@w#1{\if\bidic@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6564
6565 % String or control sequence
6566 %
6567 \def\@bidicw@w#1{\if\bidic@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6568
6569 % String or \noexpand-ed control sequence;
6570 % for use in \edef
6571 %
6572 \newif\ifbidi@in@label
6573 \def\@bidicw@w#1{\if\bidic@undefinedcs{#1}#1\else
6574 \ifbidi@in@label\noexpand\protect\fi \bidic@csname{#1}\fi}
6575 \newtoks\bidic@are@these@correct
6576 \def\bidic@t@w@w#1{%
6577 \if\bidic@undefinedcs{#1}#1%
6578 \ifdefining\bidic@append@to@list\bidic@are@these@correct{#1 }\fi
6579 \else
6580 \ifin@label\noexpand\protect\fi \bidic@csname{#1}\fi}
6581
6582 % List Manipulation .....
6583 % this assumes that #1 is a list of tokens, #2 is the name of a list
6584 %
6585 % Names of lists (and of items to pop into) are given as strings;
6586 % not as control sequences.
6587 %
6588 \newtoks\bidic@toks@lista \newtoks\bidic@toks@listb
6589 % basic append/prepend macro
6590 \long\def\@bidic@append@to@cslist#1#2#3{\begingroup\bidic@toks@lista=#2{#3}%
6591 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidic@toks@lista}
6592 \long\def\@bidic@prepend@to@cslist#1#2#3{\begingroup\bidic@toks@lista=#2{#3}%
6593 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidic@toks@lista}
6594 \def\@bidic@append@to@list{\bidic@csarg\@bidic@append@to@cslist}
6595 \def\@bidic@prepend@to@list{\bidic@csarg\@bidic@prepend@to@cslist}
6596 % variations:
6597 \long\def\bidic@append@to@list#1#2{\@bidic@append@to@list{#1}{#2}}

```



```

6598 \long\def\bidiprepend@to@list#1#2{\@bidiprepend@to@list{#1}{#2}}
6599 \def\bidiprepend@to@list#1#2{%
6600   \@bidiprepend@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}%
6601 \def\bidiprepend@to@list#1#2{%
6602   \@bidiprepend@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}%
6603 \def\bidiprepend@to@list#1#2{%
6604   \@bidiprepend@to@list{#1}{\expandafter\the#2}}
6605 \def\bidiprepend@to@list#1#2{%
6606   \@bidiprepend@to@list{#1}{\expandafter\the#2}}
6607 \def\bidiprepend@to@list#1#2{\@bidiprepend@to@list{#1}{\expandafter\the#2}}
6608 \def\bidiprepend@to@list#1#2{\@bidiprepend@to@list{#1}{\expandafter\the#2}}
6609
6610 \let\bidibeenhskip\unhskip
6611
6612 % A few list macros for the user
6613 \def\NewTokenList:#1 {\bidicsarg\newtoks{#1}\global\csname#1\endcsname{}}
6614 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6615 \long\def\AppendToTokenList:#1=#2 {\@bidiprepend@to@list{#1}{#2}}
6616 \long\def\PrependToTokenList:#1=#2 {\@bidiprepend@to@list{#1}{#2}}
6617 \def\TheTokenList:#1 {\let\bidibeenhskip\bidibeenhskip \let\bidibeenhskip\empty
6618   \if\bidibeenhskip{#1}\bidibeenhskip{Token List <#1> undefined}
6619   \else\bidibeenhskip{#1}\fi
6620   \let\bidibeenhskip\bidibeenhskip}
6621
6622 \def\bididel@tok@from@list#1#2{\begingroup
6623   \long\def\bidics@list#1#2#3{\biditok@SM
6624     {\biditoks@list#1}\biditoks@list#2}%
6625     \edef\bidics@listb{\global\bidicsname{#1}=
6626       {\the\biditoks@list#1}\the\biditoks@list#2}%
6627     \bidics@listb}%
6628     \edef\bidics@list{\noexpand\bidics@list#1}\expandafter\the\csname#1\endcsname\noexpand
6629     \bidics@listb \endgroup}
6630 \def\bidibeenhskip@of@list#1{\bidicsarg{\let\expandafter\bidics@list#1}%
6631   \bidibeenhskip@of@list#1\bidics@list#1}
6632 \long\def\bidibeenhskip@of@list#1#2{\begingroup\biditoks@list#1#2}%
6633   \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\biditoks@list#1}
6634   \endgroup}
6635 \long\def\bidibeenhskip@local@in@front@of@list#1#2{\biditoks@list#1#2}%
6636   \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
6637   {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter
6638   \expandafter\the\csname#1\endcsname}%
6639   }
6640 \def\bidibeenhskip@set@list#1{\bidicsarg{\let\expandafter\bidics@list#1}%
6641   \bidibeenhskip@set@list#1\bidics@list#1}
6642 \long\def\bidibeenhskip@set@list#1#2{\begingroup\biditoks@list#1#2}%
6643   \global#1=\expandafter\the\biditoks@list#1\endgroup}
6644
6645 %%%%%%%%%%%%%%% Stack macros
6646 %
6647 % push in terms of prepending of lists
6648 \def\bidipush@cs@onto@cs#1#2{\@bidiprepend@to@list#1\expandafter{\expandafter\expandafter}
6649 \def\bidipush@onto@cs#1{\bidicsarg\bidipush@onto@cs{#1}}
6650 \def\bidipush@onto@cs#1#2{\@bidiprepend@to@list#1{#2}}
6651 \def\bidibeenhskip@push@onto@cs#1#2{\let\bidibeenhskip\relax

```



```

6652 \bidi@local@in@front@of@list{#1}{\{\{#2\}\}}
6653 % pop via auxiliary macro: #1 is result, #2 is stack
6654 % two cs arguments
6655 \def\bidi@pop@cs@into#1#2{\edef\bidi@cs@e
6656 {\noexpand\@@bidi@popinto\noexpand#1\noexpand#2\the#2\noexpand\@@bidi@pop}\bidi@cs@e}
6657 % two string arguments
6658 \def\bidi@pop@into#1#2{\edef\bidi@cs@e
6659 {\noexpand\@@bidi@popinto\bidi@csname{#1}\bidi@csname{#2}\bidi@csarg\the{#2}\noexpand\@@b
6660 \long\def\@@bidi@popinto#1#2\#3#4\@@bidi@pop{#1{#3}#2{#4}}
6661 \def\bidi@copy@stacktop#1#2{%
6662 \edef\bidi@cs@e{\noexpand\@bidi@copy@stacktop
6663 {#1}\bidi@csarg\the{#2}\noexpand\@@bidi@pop}%
6664 \bidi@cs@e}
6665 \def\bidi@copy@stacktop#1\#2#3\@@bidi@pop{\csname#1\endcsname#2\relax}
6666 \newcount\bidi@stack@length \newtoks\bidi@empty@stack \bidi@empty@stack{\{\}}
6667 \def\bidi@length@of@stack#1{\bidi@csarg\bidi@length@of@csstack{#1}}
6668 \def\bidi@length@of@csstack#1{\def\##1{\advance\bidi@stack@length\@ne}%
6669 \bidi@stack@length\@ne \the#1}
6670 % turn a stack upside down
6671 \def\bidi@invert@csstack#1{\bidi@length@of@csstack{#1}%
6672 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@stack
6673 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6674 \bidi@pop@cs@into\bidi@temptoksb#1\advance\bidi@stack@length\@ne
6675 \bidi@push@cs@onto@cs\bidi@temptoksa\bidi@temptoksb
6676 % \bidi@append@clist@to@clist\bidi@temptoksb\bidi@temptoksa% append a to b
6677 % \bidi@temptoksa\bidi@temptoksb
6678 \repeat% copy b to a
6679 #1\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6680 % invert a stack into a list
6681 \def\bidi@x@stack@to@list#1{\bidi@length@of@stack{#1}%
6682 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@toks
6683 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6684 \bidi@pop@into\bidi@temptoksb{#1}\advance\bidi@stack@length\@ne
6685 \bidi@append@list@to@list\bidi@temptoksb{\bidi@temptoksa}\repeat
6686 \csname#1\endcsname\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6687
6688
6689 % General loop macro:
6690 % \looprepeat
6691 % \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6692 % \untilcondition{<cond>} \whilecondition{<cond>}
6693 % \doloopbody { <loop body> }
6694 % where all control sequences in between \looprepeat and \doloopbody are optional.
6695 %
6696 % var: characters to form a control sequence;
6697 % after \forvariable{index} you can access the loop counter as \index.
6698 % This is a count register; to print it use \number\index.
6699 % start,step,end: integers with obvious relations to the loop counter;
6700 % start and step have a default value of 1
6701 % cond: (sequence of commands ending in) any TeX \if... test.
6702 %
6703 % Count down instead of up with \downtovalue; the increment given in \bystep
6704 % is always positive, and is added or subtracted accordingly.
6705 %

```



```

6706 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6707 % at the beginning of the loop body.
6708 %
6709 % Exit from middle of loop: \breaklooprepeat
6710 % use this at any place in the loop; in case of a conditional use
6711 %   \ifsomething ... \expandafter \breaklooprepeat \fi
6712 %
6713 % Note that the line ends do not cause spaces in the output.
6714 %
6715 % Technical details:
6716 % The loop body is not executed in a group: the braces are those
6717 % of a token list.
6718 % The 'forvariable' variable is \let to a \count register.
6719
6720
6721
6722 % Auxiliary stuff
6723 \def\bidilooprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6724 \def\bidilooprepeat@csromannumeral#1{\csname #1\romannumeral\bidilooprepeat@depth\endcsname}
6725 \def\bidilooprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidilooprepeat@depth\endcsname}
6726
6727 \newcount\bidilooprepeat@depth
6728 \let\endlooprepeat\relax \def\bidicsprotect{}
6729 % Trace switches may later be defined by PAC_utils
6730 \let\bidilooprepeat@traceinit\relax \let\bidilooprepeat@traceexit\relax
6731
6732 % Main repeatloop macro
6733 % - go to next level and allocate unique counter/toks if this is the
6734 %   first time we visit this level
6735 % - setup: gather bounds and termination conditions
6736 % - scoop up body in token list; after the assignment define and
6737 %   execute body
6738 \def\looprepeat#1\do loopbody{\bidilooprepeat@traceinit % exit in \breakrepeatloop
6739   \advance\bidilooprepeat@depth\one\relax
6740   \bidilooprepeat@csargromannumeral\ifx{\bidilooprepeat@count}\relax
6741     \bidilooprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidilooprepeat@count}%
6742     \bidilooprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooprepeat@toks}%
6743     \bidilooprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooprepeat@toks}%
6744     \bidilooprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooprepeat@toks}%
6745   \fi \bidilooprepeat@zero \def\bidilooprepeat@sign{}\def\bidilooprepeat@comp{>}\bidilooprepeat@comp
6746   \edef\bidilooprepeat@tmp
6747     {\def\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@looprepeat}{\bidilooprepeat@body}%
6748     \afterassignment\bidilooprepeat@dxbody\bidilooprepeat@csromannumeral{\bidilooprepeat@toks}%
6749   }
6750 % Define and execute loop body
6751 % This is done with an \edef to construct the actual sequence
6752 \def\bidilooprepeat@dxbody{\bidilooprepeat@csargromannumeral\edef{\bidilooprepeat@body}{%
6753   \bidilooprepeat@csargromannumeral\the{\bidilooprepeat@wtest}%
6754   \noexpand\the\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@toks}%
6755   \bidilooprepeat@csargromannumeral\the{\bidilooprepeat@utest}%
6756   \global\bidilooprepeat@csargromannumeral\advance{\bidilooprepeat@count} by \bidilooprepeat@comp
6757   \noexpand\endlooprepeat
6758   \bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@looprepeat}}}%
6759 \bidilooprepeat@csromannumeral{\bidilooprepeat@body}\ignorespaces}

```



```

6760
6761 % Stop test
6762 %% In order to stop, issue a
6763 % \breaklooprepeat which scoops up the rest of the body and exits
6764 \def\breaklooprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral{bidi@looprepeat@body}}
6765 \advance\bidi@looprepeat@depth@m@ne \bidi@looprepeat@traceexit
6766 }
6767
6768
6769 % Setup
6770 % gather bounds and termination conditions
6771 \def\bidi@looprepeat@setup#1{%
6772   \begingroup
6773     \def\forvariable##1{%
6774       \edef\bidi@looprepeat@tmp{%
6775         \global\let\bidi@looprepeat@csarg\noexpand{##1}\bidi@looprepeat@csromannumeral{bidi@looprepeat@body}}
6776       \bidi@looprepeat@tmp}%
6777     \def\fromvalue##1{\bidi@looprepeat@csargromannumeral\global{bidi@looprepeat@count}##1\ignorespaces}%
6778     \def\tovalue##1{%
6779       \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@count}}
6780       {\bidi@looprepeat@csargromannumeral\the\bidi@looprepeat@wtest}%
6781       \noexpand\ifnum\bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@count}\bidi@looprepeat@wtest
6782       \noexpand\expandafter \noexpand\breaklooprepeat
6783       \noexpand\fi}\ignorespaces}%
6784     \bidi@looprepeat@tmp}%
6785     \def\downtovalue##1{%
6786       \gdef\bidi@looprepeat@sign{-}\gdef\bidi@looprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6787     \def\bystep##1{\ifnum##1<0 \bidi@error{LOOPREPEAT: increment has to be a positive value}%
6788       \bidi@looprepeat@csargromannumeral\gdef{bidi@looprepeat@inc}{-##1}\else
6789       \bidi@looprepeat@csargromannumeral\gdef{bidi@looprepeat@inc}{##1}\fi\ignorespaces}%
6790     \def\untilcondition##1{%
6791       \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@count}}
6792       {\noexpand##1\relax
6793       \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6794     \bidi@looprepeat@tmp}%
6795     \def\whilecondition##1{%
6796       \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@count}}
6797       {\noexpand##1\relax \noexpand\else
6798       \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6799     \bidi@looprepeat@tmp}%
6800     \fromvalue{\@ne}\bystep{\@ne}#1%
6801   \endgroup}
6802 \def\bidi@looprepeat@zero
6803   {\bidi@looprepeat@csromannumeral{bidi@looprepeat@toks}}\bidi@looprepeat@csromannumeral{bidi@looprepeat@body}}
6804 \bidi@looprepeat@csargromannumeral\def{bidi@looprepeat@body}{}}
6805
6806 %\tracingmacros2
6807 %\newcount\tmpcount % used in some examples below
6808
6809 %\looprepeat \forvariable{i}
6810 %   \bystep{2}
6811 % \doloopbody {%
6812 %   \ifnum i=13 \expandafter\breaklooprepeat \fi
6813 %   \number i}%

```



```

6814 %}%
6815
6816 %\looprepeat \forvariable{iii}
6817 %      \tovalue{8}
6818 %      \doloopbody {}
6819 %After loop: \number\iii%
6820
6821 %\looprepeat \forvariable{i}
6822 %      \fromvalue{10}
6823 %      \bystep{2}
6824 %      \downtovalue{0}
6825 %      \doloopbody {\number\i} }
6826
6827 %\looprepeat \forvariable{x} \whilecondition{\ifnum\x<7}
6828 %      \doloopbody {\number\x} }
6829
6830 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6831
6832 %\looprepeat \forvariable{j}
6833 %      \untilcondition{\tmpcount\j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6834 %      \doloopbody {\number\j} }
6835
6836 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6837 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6838 % \doloopbody {(\number\i.\number\j) }
6839 % }
6840
6841 % infinite loop
6842 %\looprepeat \doloopbody {}
6843
6844 \ExplSyntaxOn
6845 \NewDocumentCommand \bidi@AfterClass { s m o +m }
6846 {
6847   \IfBooleanTF { #1 }
6848   {
6849     \@ifclassloaded{ #2 }
6850     { #4 }
6851     {
6852       \hook_gput_code:nnn
6853       { file / #2.\@clsextension / after }
6854       { #3 }
6855       { #4 }
6856     }
6857   }
6858   {
6859     \hook_gput_code:nnn { file / #2.\@clsextension / after } { #3 } { #4 }
6860   }
6861 }
6862
6863 \seq_new:N \g__biditools_input_file_seq
6864
6865 \prg_new_protected_conditional:Npnn \__bidi_if_loading:n #1 { T, F, TF }
6866 {
6867   \str_set:Nx \l_tmpa_str { #1 }

```



```

6868 \seq_if_in:NxTF \g__biditools_input_file_seq { \str_use:N \l_tmpa_str }
6869 { \prg_return_true: }
6870 { \prg_return_false: }
6871 }
6872
6873 \prg_new_protected_conditional:Npnn \bidi_if_class_loaded:n #1 { T, F, TF }
6874 {
6875   \@ifclassloaded { #1 }
6876   {
6877     \__bidi_if_loading:nTF { #1.\@clsextension }
6878     { \prg_return_false: }
6879     { \prg_return_true: }
6880   }
6881   {
6882     \prg_return_false:
6883   }
6884 }
6885
6886 \prg_new_protected_conditional:Npnn \bidi_if_package_loaded:n #1 { T, F, TF }
6887 {
6888   \@ifpackageloaded { #1 }
6889   {
6890     \__bidi_if_loading:nTF { #1.\@pkgextension }
6891     { \prg_return_false: }
6892     { \prg_return_true: }
6893   }
6894   {
6895     \prg_return_false:
6896   }
6897 }
6898
6899 \NewDocumentCommand \bidi@AfterAtEndOfClass { s m o +m }
6900 {
6901   \IfBooleanTF { #1 }
6902   {
6903     \bidi_if_class_loaded:nTF { #2 }
6904     { #4 }
6905     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6906   }
6907   {
6908     \bidi_if_class_loaded:nF
6909     { #2 }
6910     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6911   }
6912 }
6913
6914 \NewDocumentCommand \bidi@AfterPackage { s m o +m }
6915 {
6916   \IfBooleanTF { #1 }
6917   {
6918     \@ifpackageloaded{ #2 }
6919     { #4 }
6920     {
6921       \hook_gput_code:nnn

```





```

6922         { file / #2.\@pkgextension / after }
6923         { #3 }
6924         { #4 }
6925     }
6926 }
6927 {
6928     \hook_gput_code:nnn { file / #2.\@pkgextension / after } { #3 } { #4 }
6929 }
6930 }
6931
6932 \NewDocumentCommand \bidi@AfterAtEndOfPackage { s m o +m }
6933 {
6934     \IfBooleanTF { #1 }
6935     {
6936         \bidi_if_package_loaded:nTF { #2 }
6937         { #4 }
6938         { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6939     }
6940     {
6941         \bidi_if_package_loaded:nF
6942         { #2 }
6943         { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6944     }
6945 }
6946
6947 \clist_new:N \l__biditools_package_clist
6948 \msg_new:nnn { biditools } { cannot-prevent-for-already-loaded-package }
6949 {
6950     Can-not-prevent-package~`#1'~from-being-loaded,~
6951     since-it-has-been-loaded-already-before-line~\msg_line_number:
6952 }
6953 \clist_new:N \g__biditools_prevent_clist
6954
6955 \NewDocumentCommand \bidi@PreventPackageFromLoading { s +o m }
6956 {
6957     \clist_set:Nx \l__biditools_package_clist { #3 }
6958     \clist_map_inline:Nn \l__biditools_package_clist
6959     {
6960         \@ifpackageloaded { ##1 }
6961         {
6962             \IfBooleanTF { #1 } { \msg_info:nnn } { \msg_warning:nnn }
6963             { biditools } { cannot-prevent-for-already-loaded-package } { ##1 }
6964         }
6965         {
6966             \clist_if_in:NnF \g__biditools_prevent_clist { ##1 }
6967             { \clist_gput_right:Nn \g__biditools_prevent_clist { ##1 } }
6968             \tl_if_exist:cF { g__biditools_exclude_package_##1_tl }
6969             {
6970                 \tl_new:c { g__biditools_exclude_package_##1_tl }
6971             }
6972             \IfValueT { #2 }
6973             {
6974                 \tl_gput_right:cn { g__biditools_exclude_package_##1_tl } { #2 }
6975             }

```



```

6976         \disable@package@load { ##1 }
6977         { \tl_use:c { g__biditools_exclude_package_##1_tl } }
6978     }
6979 }
6980 \clist_clear:N \l__biditools_package_clist
6981 }
6982
6983 \NewDocumentCommand \bidi@ResetPreventPackageFromLoading {}
6984 {
6985     \clist_map_function:NN \g__biditools_prevent_clist \reenable@package@load
6986     \clist_gclear:N \g__biditools_prevent_clist
6987 }
6988
6989 \NewDocumentCommand \bidi@StorePreventPackageFromLoading { m }
6990 { \edef #1 { \clist_use:Nn \g__biditools_prevent_clist { , } } }
6991
6992 \NewDocumentCommand \bidi@UnPreventPackageFromLoading { s m }
6993 {
6994     \clist_set:Nx \l__biditools_package_clist { #2 }
6995     \clist_map_inline:Nn \l__biditools_package_clist
6996     {
6997         \clist_if_in:NnT \g__biditools_prevent_clist { ##1 }
6998         {
6999             \clist_gremove_all:Nn \g__biditools_prevent_clist { ##1 }
7000             \reenable@package@load { ##1 }
7001             \IfBooleanT { #1 }
7002             { \cs_undefine:c { g__biditools_exclude_package_##1_tl } }
7003         }
7004     }
7005 }
7006
7007 \NewDocumentCommand \bidi@BeforeClosingMainAux { o m }
7008 {
7009     \hook_gput_code:nnn { enddocument / afterlastpage } { #1 }
7010     {
7011         \debug_suspend:
7012         \RenewDocumentCommand \bidi@BeforeClosingMainAux { m } { ##1 }
7013         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7014         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7015         #2
7016         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7017         \debug_resume:
7018     }
7019 }
7020
7021 \NewDocumentCommand \bidi@AfterReadingMainAux { o m }
7022 {
7023     \hook_gput_code:nnn { enddocument / afteraux } { #1 }
7024     {
7025         \debug_suspend:
7026         \RenewDocumentCommand \bidi@AfterReadingMainAux { m } { ##1 }
7027         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7028         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7029         #2

```



```

7030      \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7031      \debug_resume:
7032    }
7033  }
7034
7035  \clist_new:N \l__biditools_file_patch_clist
7036
7037  \NewDocumentCommand \ApplyPatchToFiles { m O{def} O{bidi} }
7038  {
7039    \clist_set:Nx \l__biditools_file_patch_clist { #1 }
7040    \clist_map_inline:Nn \l__biditools_file_patch_clist
7041    {
7042      \ApplyPatchToFile { ##1 } [ #2 ] [ #3 ]
7043    }
7044    \clist_clear:N \l__biditools_file_patch_clist
7045  }
7046
7047  \clist_new:N \l__biditools_package_patch_clist
7048
7049  \NewDocumentCommand \ApplyPatchToPackages { m O{bidi} }
7050  {
7051    \clist_set:Nx \l__biditools_package_patch_clist { #1 }
7052    \clist_map_inline:Nn \l__biditools_package_patch_clist
7053    {
7054      \ApplyPatchToPackage { ##1 } [ #2 ]
7055    }
7056    \clist_clear:N \l__biditools_package_patch_clist
7057  }
7058
7059  \clist_new:N \l__biditools_class_patch_clist
7060
7061  \NewDocumentCommand \ApplyPatchToClasses { m O{bidi} }
7062  {
7063    \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7064    \clist_map_inline:Nn \l__biditools_class_patch_clist
7065    {
7066      \ApplyPatchToClass { ##1 } [ #2 ]
7067    }
7068    \clist_clear:N \l__biditools_class_patch_clist
7069  }
7070
7071  \NewDocumentCommand \ApplyPatchToClassesIfPackageLoadedF { m m O{bidi} }
7072  {
7073    \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7074    \clist_map_inline:Nn \l__biditools_class_patch_clist
7075    {
7076      \ApplyPatchToClassIfPackageLoadedF { ##1 } { #2 } [ #3 ]
7077    }
7078    \clist_clear:N \l__biditools_class_patch_clist
7079  }
7080  \ExplSyntaxOff
7081
7082  \newcommand*{\bidi@ReplaceInput}{\declare@file@substitution}
7083  \newcommand*{\bidi@UnReplaceInput}

```



```

7084 {\undeclare@file@substitution}
7085 \newcommand*{\bidi@ReplacePackage}[2]{%
7086   \declare@file@substitution{#1.\@pkgextension}{#2.\@pkgextension}%
7087 }
7088 \newcommand*{\bidi@UnReplacePackage}[1]{%
7089   \undeclare@file@substitution{#1.\@pkgextension}%
7090 }
7091 \newcommand*{\bidi@ReplaceClass}[2]{%
7092   \declare@file@substitution{#1.\@clsextension}{#2.\@clsextension}%
7093 }
7094 \newcommand*{\bidi@UnReplaceClass}[1]{%
7095   \undeclare@file@substitution{#1.\@clsextension}%
7096 }
7097 \newcommand*{\bidi@BeforeFile}[1]{%
7098   \AddToHook{file/#1/before}%
7099 }
7100 \newcommand*{\bidi@AfterFile}[1]{%
7101   \AddToHook{file/#1/after}%
7102 }
7103 \newcommand*{\bidi@BeforeClass}[1]{%
7104   \bidi@BeforeFile{#1.\@clsextension}%
7105 }
7106 \newcommand*{\bidi@BeforePackage}[1]{%
7107   \bidi@BeforeFile{#1.\@pkgextension}%
7108 }
7109
7110 \long\def\bidi@protected@immediate@write#1#2#3{%
7111   \begingroup
7112     #2%
7113     \let\protect\@unexpandable@protect
7114     \edef\reserved@a{\immediate\write#1{#3}}%
7115     \reserved@a
7116   \endgroup
7117   \if@nobreak\ifvmode\nobreak\fi\fi
7118 }
7119
7120 \def\bidi@patch@AfterPackage#1{%
7121   \@ifpackageloaded{#1}{%
7122     \@firstofone
7123   }{%
7124     \AddToHook{package/#1/after}%
7125   }%
7126 }
7127
7128 \def\bidi@patch@AfterFile#1{%
7129   \IfFileLoadedTF{#1}{%
7130     \@firstofone
7131   }{%
7132     \AddToHook{file/#1/after}%
7133   }%
7134 }
7135
7136 \NewDocumentCommand \ApplyPatchToFile { m O{def} O{bidi} }
7137 {

```



```

7138 \bidi@patch@AfterFile{#1.#2}{%
7139 \ifnum\catcode`\@=11
7140 \input{#1-xetex-#3.def}%
7141 \else
7142 \bidi@storecatcode\@
7143 \makeatletter
7144 \input{#1-xetex-#3.def}%
7145 \bidi@restorecatcode\@
7146 \fi
7147 }%
7148 }
7149
7150 \NewDocumentCommand \ApplyPatchCodeToFile { m +m O{def} }
7151 {
7152 \bidi@patch@AfterFile{#1.#3}{#2}%
7153 }
7154
7155 \NewDocumentCommand \ApplyPatchToFilesIfPackageLoadedF { m m O{def} O{bidi} }
7156 {
7157 \AddToHook{begindocument/before}{%
7158 \IfPackageLoadedF{#1}{%
7159 \ApplyPatchToFiles{#2}{#3}{#4}%
7160 }%
7161 }
7162 }
7163
7164 \NewDocumentCommand \ApplyPatchToClassIfPackageLoadedF { m m O{bidi} }
7165 {
7166 \AddToHook{begindocument/before}{%
7167 \IfPackageLoadedF{#2}{%
7168 \ifnum\catcode`\@=11
7169 \@ifclassloaded{#1}{%
7170 \input{#1-xetex-#3.def}%
7171 }{}%
7172 \else
7173 \bidi@storecatcode\@
7174 \makeatletter
7175 \@ifclassloaded{#1}{%
7176 \input{#1-xetex-#3.def}%
7177 }{}%
7178 \bidi@restorecatcode\@
7179 \fi
7180 }%
7181 }
7182 }
7183
7184 \NewDocumentCommand \ApplyPatchToPackageIfPackageLoadedF { m m O{bidi} }
7185 {
7186 \AddToHook{begindocument/before}{%
7187 \IfPackageLoadedF{#2}{%
7188 \IfPackageLoadedT{#1}{%
7189 \ifnum\catcode`\@=11
7190 \input{#1-xetex-#3.def}%
7191 \else

```



```

7192         \bidi@storecatcode\@
7193         \makeatletter
7194         \input{#1-xetex-#3.def}%
7195         \bidi@restorecatcode\@
7196     \fi
7197 }%
7198 }%
7199 }
7200 }
7201
7202 \NewDocumentCommand \ApplyPatchIfPackageLoaded { m +m +m }
7203 {
7204     \AddToHook{begindocument/before}{%
7205         \ifnum\catcode`\@=11
7206             \@ifpackageloaded{#1}{#2}{#3}%
7207         \else
7208             \bidi@storecatcode\@
7209             \makeatletter
7210             \@ifpackageloaded{#1}{#2}{#3}%
7211             \bidi@restorecatcode\@
7212         \fi
7213     }
7214 }
7215
7216 \NewDocumentCommand \ApplyPatchIfPackageLoadedT { m +m }
7217 {
7218     \ApplyPatchIfPackageLoaded{#1}{#2}{}%
7219 }
7220
7221 \NewDocumentCommand \ApplyPatchIfPackageLoadedF { m +m }
7222 {
7223     \ApplyPatchIfPackageLoaded{#1}{}{#2}%
7224 }
7225
7226 \NewDocumentCommand \ApplyPatchToPackage { m O{bidi} }
7227 {
7228     \bidi@patch@AfterPackage{#1}{\input{#1-xetex-#2.def}}%
7229 }
7230
7231 \NewDocumentCommand \ApplyPatchCodeToPackage { m +m }
7232 {
7233     \bidi@patch@AfterPackage{#1}{#2}%
7234 }
7235
7236 \NewDocumentCommand \ApplyPatchToClass { m O{bidi} }
7237 {
7238     \@ifclassloaded{#1}{\input{#1-xetex-#2.def}}{}%
7239 }

```

## 53 File `bidituftefloat.sty`

```

7240 \NeedsTeXFormat{LaTeX2e}
7241 \ProvidesPackage{bidituftefloat}[2025/01/03 v0.3
7242 bidi implementation of tufte float]

```



```

7243 \RequirePackage{xifthen}
7244 \newcommand{\@biditytfloat@pkgname}{biditytfloat}
7245 \newcommand{\biditytfloatError}[2]{\PackageError{\@biditytfloat@pkgname}{#1}{#2}}
7246 \newcommand{\biditytfloatDebugInfoNL}[1]{\ifthenelse{\boolean{\@biditytfloat@debug}}{\bid
7247 \newcommand{\biditytfloatInfoNL}[1]{\PackageInfo{\@biditytfloat@pkgname}{#1\@gobble}}
7248 \newboolean{\@biditytfloat@reversegeometry}
7249 \setboolean{\@biditytfloat@reversegeometry}{false}
7250 \DeclareOption{reversegeometry}{\setboolean{\@biditytfloat@reversegeometry}{true}}
7251 \newboolean{\@biditytfloat@a4paper}
7252 \DeclareOption{a4paper}{\setboolean{\@biditytfloat@a4paper}{true}}
7253 \newboolean{\@biditytfloat@b5paper}
7254 \DeclareOption{b5paper}{\setboolean{\@biditytfloat@b5paper}{true}}
7255 \newboolean{\@biditytfloat@symmetric}
7256 \newboolean{\@biditytfloat@twoside}
7257 \DeclareOption{twoside}{%
7258 \@twoside>true \mparswitchtrue%
7259 \setboolean{\@biditytfloat@twoside}{true}%
7260 \setboolean{\@biditytfloat@symmetric}{true}%
7261 }
7262 \DeclareOption{oneside}{%
7263 \@twoside>false \mparswitchfalse%
7264 \setboolean{\@biditytfloat@twoside}{false}%
7265 \setboolean{\@biditytfloat@symmetric}{false}%
7266 }
7267 \IfClassLoadedT{book}{\ExecuteOptions{twoside}}
7268 \newboolean{\@biditytfloat@debug}
7269 \newcommand*{\@biditytfloat@caption@justification}{\@biditytfloat@justification@autodete
7270 \ProcessOptions
7271 %% Globally sets the length
7272 \newcommand*{\gsetlength}[2]{%
7273 \setlength{#1}{#2}%
7274 \global#1=#1\relax%
7275 }
7276
7277 %% Set the font sizes and baselines to match biditytfloat's books
7278 \renewcommand\normalsize{%
7279 \setfontsize\normalsize\@xpt{14}%
7280 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7281 \abovedisplayshortskip \z@ \@plus3\p@
7282 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7283 \belowdisplayskip \abovedisplayskip
7284 \let\@listi\@listI}
7285 \normalbaselineskip=14pt
7286 \normalsize
7287 \renewcommand\footnotesize{%
7288 \setfontsize\footnotesize\@viipt{10}%
7289 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7290 \abovedisplayshortskip \z@ \@plus\p@
7291 \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7292 \def\@listi{\leftmargin\leftmarginI
7293 \topsep 3\p@ \@plus\p@ \@minus\p@
7294 \parsep 2\p@ \@plus\p@ \@minus\p@
7295 \itemsep \parsep}%
7296 \belowdisplayskip \abovedisplayskip

```



```

7297 }
7298 %% Paragraph indentation and separation for marginal text
7299 \newcommand{\@biditytfloat@margin@par}{%
7300   \setlength{\RaggedRightParindent}{0.5pc}%
7301   \setlength{\JustifyingParindent}{0.5pc}%
7302   \setlength{\parindent}{0.5pc}%
7303   \setlength{\parskip}{0pt}%
7304 }
7305 \RequirePackage{ragged2e}
7306 \ifthenelse{\boolean{@biditytfloat@reversegeometry}}{%
7307 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7308 \ifthenelse{\boolean{@biditytfloat@afourpaper}}
7309   {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7310   }}
7311 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
7312   {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm
7313   }}{%
7314 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7315 \ifthenelse{\boolean{@biditytfloat@afourpaper}}
7316   {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7317   }}
7318 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
7319   {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
7320   }}
7321 \ifthenelse{\boolean{@biditytfloat@symmetric}}
7322   {}
7323   {\geometry{asymmetric}}}% forces internal LaTeX `twoside'
7324 \setlength\marginparpush{10pt}
7325 %% Font for margin items
7326 \newcommand{\@biditytfloat@marginfont}{\normalfont\footnotesize}
7327 \newcommand*{\@biditytfloat@caption@font}{\@biditytfloat@marginfont}
7328 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@biditytfloat@caption@font}{#1}}
7329 \newcommand{\@biditytfloat@justification}{\justifying}%
7330 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7331 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7332 \newboolean{@biditytfloat@changepage}
7333 \IfFileExists{changepage.sty}{%
7334   \biditytfloatDebugInfoNL{Found changepage.sty}
7335   \RequirePackage[strict]{changepage}
7336   \setboolean{@biditytfloat@changepage}{true}
7337 }{%
7338   \biditytfloatDebugInfoNL{Found chngpage.sty}
7339   \RequirePackage[strict]{chngpage}
7340   \setboolean{@biditytfloat@changepage}{false}
7341 }
7342 \newboolean{@biditytfloat@odd@page}
7343 \setboolean{@biditytfloat@odd@page}{true}
7344 \newcommand*{\@biditytfloat@checkoddpage}{%
7345   \checkoddpage%
7346   \ifthenelse{\boolean{@biditytfloat@changepage}}{%
7347     \ifoddpage%
7348       \setboolean{@biditytfloat@odd@page}{true}%
7349     \else%
7350       \setboolean{@biditytfloat@odd@page}{false}%

```





```

7351     \fi%
7352   }{%
7353     \ifcoddpage%
7354       \setboolean{@biditytfloat@odd@page}{true}%
7355     \else%
7356       \setboolean{@biditytfloat@odd@page}{false}%
7357     \fi%
7358   }%
7359 }
7360 \newlength{@biditytfloat@overhang}% used by the fullwidth environment and the running head
7361 \newlength{@biditytfloat@fullwidth}
7362 \newlength{@biditytfloat@caption@fill}
7363 \newcommand{@biditytfloatRecalculate}{%
7364   \setlength{@biditytfloat@overhang}{\marginparwidth}
7365   \addtolength{@biditytfloat@overhang}{\marginparsep}
7366
7367   \setlength{@biditytfloat@fullwidth}{\textwidth}
7368   \addtolength{@biditytfloat@fullwidth}{\marginparsep}
7369   \addtolength{@biditytfloat@fullwidth}{\marginparwidth}
7370
7371   \setlength{@biditytfloat@caption@fill}{\textwidth}
7372   \addtolength{@biditytfloat@caption@fill}{\marginparsep}
7373 }
7374 \AtBeginDocument{@biditytfloatRecalculate}
7375 \RequirePackage{optparams}% provides multiple optional arguments for commands
7376 \RequirePackage{placeins}
7377 \newsavebox{@biditytfloat@margin@floatbox}
7378 \newenvironment{@biditytfloat@margin@float}[2][-1.2ex]%
7379 { \FloatBarrier% process all floats before this point so the figure/table numbers stay in order
7380   \begin{lrbox}{@biditytfloat@margin@floatbox}%
7381   \begin{minipage}{\marginparwidth}%
7382     \@biditytfloat@caption@font%
7383     \def\capttype{#2}%
7384     \hbox{} \vspace*{#1}%
7385     \@biditytfloat@caption@justification%
7386     \@biditytfloat@margin@par%
7387     \noindent%
7388   }
7389   {\end{minipage}}%
7390   \end{lrbox}%
7391   \marginpar{\usebox{@biditytfloat@margin@floatbox}}%
7392 }
7393 \newenvironment{marginfigure}[1][-1.2ex]%
7394 { \begin{@biditytfloat@margin@float}[#1]{figure}}
7395 { \end{@biditytfloat@margin@float}}
7396 \newenvironment{margintable}[1][-1.2ex]%
7397 { \begin{@biditytfloat@margin@float}[#1]{table}}
7398 { \end{@biditytfloat@margin@float}}
7399 \newcommand*{@biditytfloat@justification@autodetect}{\justifying}%
7400
7401 \newcommand{@biditytfloat@float@debug@info}{}% contains debug info generated as the float is processed
7402 \newcommand{@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7403   \ifthenelse{\equal{@biditytfloat@float@debug@info}{}}{}%
7404   {\def{@biditytfloat@float@debug@info}{#1}}%

```



```

7405     {\g@addto@macro\@bidiutefloat@float@debug@info{\MessageBreak#1}}%
7406 }
7407 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7408 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@bidiutefloat@float@debug@info{\MessageBreak#1}}%
7409 \newboolean{\@bidiutefloat@float@recto}
7410 \newcommand{\forcerectofloat}{\GlobalSetBoolean{\@bidiutefloat@float@recto}{true}\@bidiutefloat@float@debug@info{\MessageBreak#1}}%
7411 \newcommand{\forceversofloat}{\GlobalSetBoolean{\@bidiutefloat@float@recto}{false}\@bidiutefloat@float@debug@info{\MessageBreak#1}}%
7412 \newsavebox{\@bidiutefloat@figure@box}
7413 \newsavebox{\@bidiutefloat@caption@box}
7414 \let\@bidiutefloat@orig@float\@float
7415 \let\@bidiutefloat@orig@endfloat\endfloat
7416 \newlength{\@bidiutefloat@caption@vertical@offset}
7417 \setlength{\@bidiutefloat@caption@vertical@offset}{0pt}
7418 \newcommand{\@bidiutefloat@stored@shortcaption}{%
7419 \newcommand{\@bidiutefloat@stored@caption}{%
7420 \newcommand{\@bidiutefloat@stored@label}{%
7421 \long\def\@bidiutefloat@caption[#1][#2]#3{%
7422 \ifthenelse{\isempty{#1}}{%
7423     {\gdef\@bidiutefloat@stored@shortcaption{#3}}%
7424     {\gdef\@bidiutefloat@stored@caption{#1}}%
7425 \gsetlength{\@bidiutefloat@caption@vertical@offset}{-#2}% we want a positive offset to 1
7426 \gdef\@bidiutefloat@stored@caption{#3}%
7427 }
7428 \newcommand{\@bidiutefloat@label}[1]{%
7429 \gdef\@bidiutefloat@stored@label{#1}%
7430 }
7431 \newcommand{\@bidiutefloat@fps}{%
7432 \newboolean{\@bidiutefloat@float@star}
7433 \newlength{\@bidiutefloat@float@contents@width}
7434 \newenvironment{\@bidiutefloat@float}[3][htbp]%
7435 {% begin \@bidiutefloat@float
7436 % Should this float be full-width or just text-width?
7437 \ifthenelse{\equal{#3}{star}}{%
7438     {\GlobalSetBoolean{\@bidiutefloat@float@star}{true}}%
7439     {\GlobalSetBoolean{\@bidiutefloat@float@star}{false}}%
7440 % Check page side (recto/verso) and store detected value -- can be overridden in environment
7441 \@bidiutefloat@checkoddpages%
7442 \ifthenelse{\boolean{\@bidiutefloat@odd@page}}{%
7443     {\GlobalSetBoolean{\@bidiutefloat@float@recto}{true}\@bidiutefloat@float@debug@info{\MessageBreak#1}}%
7444     {\GlobalSetBoolean{\@bidiutefloat@float@recto}{false}\@bidiutefloat@float@debug@info{\MessageBreak#1}}%
7445 % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
7446 \renewcommand{\@bidiutefloat@fps}{#1}%
7447 \@bidiutefloat@float@debug{Allowed positions: [1]}%
7448 \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}{%
7449     {\renewcommand{\floatalignment}{b}\@bidiutefloat@float@debug{Presumed position: [bottom]}}%
7450     {\renewcommand{\floatalignment}{t}\@bidiutefloat@float@debug{Presumed position: [top]}}%
7451 % Capture the contents of the \caption and \label commands to use later
7452 \global\let\@bidiutefloat@orig@caption\caption%
7453 \global\let\@bidiutefloat@orig@label\label%
7454 \renewcommand{\caption}{\optparams{\@bidiutefloat@caption}{[1][Opt]}}%
7455 \renewcommand{\label}[1]{\@bidiutefloat@label{##1}}%
7456 % Handle subfigure package compatibility
7457 \ifthenelse{\boolean{\@bidiutefloat@packages@subfigure}}{%
7458     \bidi@patchcmd{\subfigure}{%

```



```

7459 \let\subfig@oldlabel=\label
7460 }{%
7461 \let\subfig@oldlabel=\@biditytfloat@orig@label
7462 }
7463 {}
7464 {}
7465 \let\subtable=\subfigure
7466 }{}% subfigure package is not loaded
7467 \@biditytfloat@orig@float{#2}[#1]%
7468 \ifthenelse{\boolean{@biditytfloat@float@star}}%
7469 {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
7470 {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
7471 \begin{lrbox}{\@biditytfloat@figure@box}%
7472 \begin{minipage}[\floatalignment]{\@biditytfloat@float@contents@width}\hbox{}%
7473 }{% end @biditytfloat@float
7474 \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{} a
7475 \end{minipage}%
7476 \end{lrbox}%
7477 % build the caption box
7478 \begin{lrbox}{\@biditytfloat@caption@box}%
7479 \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{}%
7480 \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}}{\@biditytfloat@orig@cap
7481 \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}}{\@biditytfloat@orig@label
7482 \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7483 \end{minipage}%
7484 \end{lrbox}%
7485 % now typeset the stored boxes
7486 \begin{fullwidth}%
7487 \begin{minipage}[\floatalignment]{\linewidth}%
7488 \ifthenelse{\boolean{@biditytfloat@float@star}}%
7489 {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7490 {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7491 \end{minipage}%
7492 \end{fullwidth}%
7493 \@biditytfloat@orig@endfloat% end original LaTeX float environment
7494 % output debug info
7495 \ifthenelse{\boolean{@biditytfloat@debug}}{%
7496 \typeout{^^J^^J----- biditytfloat package float information -----}%
7497 \ifthenelse{\equal{\@biditytfloat@stored@label}}{}%
7498 {\typeout{Warning: Float unlabeled!}}%
7499 {\typeout{Float label: [\@biditytfloat@stored@label]}}%
7500 \typeout{Page number: [\thepage]}%
7501 \def\MessageBreak{^^J}%
7502 \typeout{\@biditytfloat@float@debug@info}%
7503 \ifthenelse{\boolean{@biditytfloat@symmetric}}%
7504 {\typeout{Symmetric: [true]}}%
7505 {\typeout{Symmetric: [false]}}%
7506 \typeout{-----^^J^^J}%
7507 }{}%
7508 % reset commands and temp boxes and captions
7509 \gdef\@biditytfloat@float@debug@info{}%
7510 \let\caption\@biditytfloat@orig@caption%
7511 \let\label\@biditytfloat@orig@label%
7512 \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%

```



```

7513 \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%
7514 \gdef\@biditytfloat@stored@shortcaption{}%
7515 \gdef\@biditytfloat@stored@caption{}%
7516 \gdef\@biditytfloat@stored@label{}%
7517 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
7518 }
7519 \newcommand{\@biditytfloat@float@textwidth}[3][Opt]{%
7520 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@recto}}
7521 % asymmetric or page is odd, so caption is on the right
7522 \hbox{%
7523 \usebox{#2}%
7524 \hspace{\marginparsep}%
7525 \smash{\raisebox{#1}{\usebox{#3}}}%
7526 }
7527 \@biditytfloat@float@debug{Caption position: [right]}%
7528 }{% symmetric pages and page is even, so caption is on the left
7529 \hbox{%
7530 \smash{\raisebox{#1}{\usebox{#3}}}%
7531 \hspace{\marginparsep}%
7532 \usebox{#2}%
7533 }
7534 \@biditytfloat@float@debug{Caption position: [left]}%
7535 }%
7536 }
7537 \newcommand{\@biditytfloat@float@fullwidth}[3][Opt]{%
7538 \ifthenelse{\equal{\floatalignment}{b}}%
7539 {% place caption above figure
7540 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@recto}}
7541 {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debug}
7542 {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytfloat@float@debug}
7543 }{% place caption below figure
7544 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@recto}}
7545 {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debug}
7546 {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytfloat@float@debug}
7547 }%
7548 }
7549 \renewenvironment{figure}[1][htbp]%
7550 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{}}
7551 {\end{@biditytfloat@float}}
7552 \renewenvironment{table}[1][htbp]
7553 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{}}
7554 {\end{@biditytfloat@float}}
7555 \renewenvironment{figure*}[1][htbp]%
7556 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{star}}
7557 {\end{@biditytfloat@float}}
7558 \renewenvironment{table*}[1][htbp]%
7559 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{star}}
7560 {\end{@biditytfloat@float}}
7561 \newenvironment{fullwidth}
7562 {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7563 {\ifthenelse{\boolean{@biditytfloat@changepage}}{\begin{adjustwidth*}{- \@biditytfloat@overhang}}%
7564 {\begin{adjustwidth}{- \@biditytfloat@overhang}}}%
7565 }%
7566 {\ifthenelse{\boolean{@biditytfloat@symmetric}}%

```



```

7567     {\ifthenelse{\boolean{@bidituftefloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth}}
7568     {\end{adjustwidth}}}%
7569 }
7570 \long\def\@caption#1[#2]#3{%
7571   \par%
7572   \addcontentsline{\csname ext@#1\endcsname}{#1}%
7573     {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7574   \begingroup%
7575     \@parboxrestore%
7576     \if@minipage%
7577       \@setminipage%
7578     \fi%
7579     \@bidituftefloat@caption@font\@bidituftefloat@caption@justification%
7580     \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7581     %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7582   \endgroup}
7583 %%
7584 % Turns newlines into spaces. Based on code from the 'titlesec' package.
7585 \DeclareRobustCommand{\@biditufteheading@newlinetospace}{%
7586   \ifstar{\@biditufteheading@newlinetospace@i}{\@biditufteheading@newlinetospace@i}%
7587 }
7588 \def\@biditufteheading@newlinetospace@i{%
7589   \ifdim\lastskip>z@\else\space\fi
7590   \ignorespaces%
7591 }
7592 \DeclareRobustCommand{\newlinetospace}[1]{%
7593   \let\@biditufteheading@orig@cr\\% save the original meaning of \\
7594   \def\\{\@biditufteheading@newlinetospace}% turn \\ and \\* into \space
7595   \let\newline\\% turn \newline into \space
7596   #1%
7597   \let\\ \@biditufteheading@orig@cr% revert to original meaning of \\
7598 }
7599 \RequirePackage{fancyhdr}
7600 \pagestyle{fancy}
7601 \AtBeginDocument{%
7602   \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7603     {\fancyhfoffset[LE,RO]{\@bidituftefloat@overhang}}
7604     {\fancyhfoffset[RE,RO]{\@bidituftefloat@overhang}}
7605 }
7606 % The running heads/feet don't have rules
7607 \renewcommand{\headrulewidth}{0pt}
7608 \renewcommand{\footrulewidth}{0pt}
7609 % The 'fancy' page style is the default style for all pages.
7610 \fancyhf{} % clear header and footer fields
7611   \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7612     {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7613     \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7614     {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7615 % The 'plain' page style is used on chapter opening pages.
7616 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7617 % bottom of pages -- the folios are unexpressed.
7618 \fancypagestyle{plain}{
7619   \fancyhf{} % clear header and footer fields
7620   % Uncomment the following five lines of code if you want the opening page

```



```

7621 % of the chapter to express the folio in the lower outside corner.
7622 % \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7623 % {\fancyfoot[LE,RO]{\thepage}}
7624 % {\fancyfoot[RE,RO]{\thepage}}
7625 }
7626 % The 'empty' page style suppresses all headers and footers.
7627 % It's used on title pages and 'intentionally blank' pages.
7628 \fancypagestyle{empty}{
7629 \fancyhf{} % clear header and footer fields
7630 }
7631 \def\morefloats{% provides a total of 52 floats
7632 \ifthenelse{\isundefined{\bx@S}}{%
7633 \bidituftefloatDebugInfoNL{Adding 34 more float slots.}
7634 \newinsert\bx@S
7635 \newinsert\bx@T
7636 \newinsert\bx@U
7637 \newinsert\bx@V
7638 \newinsert\bx@W
7639 \newinsert\bx@X
7640 \newinsert\bx@Y
7641 \newinsert\bx@Z
7642 \newinsert\bx@a
7643 \newinsert\bx@b
7644 \newinsert\bx@c
7645 \newinsert\bx@d
7646 \newinsert\bx@e
7647 \newinsert\bx@f
7648 \newinsert\bx@g
7649 \newinsert\bx@h
7650 \newinsert\bx@i
7651 \newinsert\bx@j
7652 \newinsert\bx@k
7653 \newinsert\bx@l
7654 \newinsert\bx@m
7655 \newinsert\bx@n
7656 \newinsert\bx@o
7657 \newinsert\bx@p
7658 \newinsert\bx@q
7659 \newinsert\bx@r
7660 \newinsert\bx@s
7661 \newinsert\bx@t
7662 \newinsert\bx@u
7663 \newinsert\bx@v
7664 \newinsert\bx@w
7665 \newinsert\bx@x
7666 \newinsert\bx@y
7667 \newinsert\bx@z
7668 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7669 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7670 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7671 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7672 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7673 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7674 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e

```



```

7675         \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7676         \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7677         \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7678         \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7679         \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
7680 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7681 \ifthenelse{\isundefined{\bx@AA}}{%
7682   \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7683   \newinsert\bx@AA
7684   \newinsert\bx@BB
7685   \newinsert\bx@CC
7686   \newinsert\bx@DD
7687   \newinsert\bx@EE
7688   \newinsert\bx@FF
7689   \newinsert\bx@GG
7690   \newinsert\bx@HH
7691   \newinsert\bx@II
7692   \newinsert\bx@JJ
7693   \newinsert\bx@KK
7694   \newinsert\bx@LL
7695   \newinsert\bx@MM
7696   \newinsert\bx@NN
7697   \newinsert\bx@OO
7698   \newinsert\bx@PP
7699   \newinsert\bx@QQ
7700   \newinsert\bx@RR
7701   \newinsert\bx@SS
7702   \newinsert\bx@TT
7703   \newinsert\bx@UU
7704   \newinsert\bx@VV
7705   \newinsert\bx@WW
7706   \newinsert\bx@XX
7707   \newinsert\bx@YY
7708   \newinsert\bx@ZZ
7709 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7710   \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7711   \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7712   \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7713   \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7714   \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7715   \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7716   \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7717   \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7718   \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7719   \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7720   \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7721   \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7722   \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7723   \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7724   \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7725   \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7726   \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7727 }{%
7728   \bidituftefloatError{You may only call \string\morefloats\space twice. See the\Message

```



```

7729         {There are already 78 float slots allocated. Try using \string\FloatBarrier\space or
7730     }%
7731 }%
7732 }
7733 \newboolean{@biditytfloat@packages@subfigure}
7734 \setboolean{@biditytfloat@packages@subfigure}{false}
7735 \AtBeginDocument{%
7736     \ifpackageloaded{subfigure}
7737     {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
7738     {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}}%
7739 }
7740 \AtBeginDocument{%
7741     \ifpackageloaded{float}{%
7742         % Save the redefined float environment (instead of the LaTeX float environment)
7743         \let\@biditytfloat@orig@float\@float
7744         \let\@biditytfloat@orig@endfloat\endfloat
7745
7746         % Define Tuftian float styles (with the caption in the margin)
7747         \newcommand{\floatc@biditytfloatplain}[2]{%
7748             \begin{lrbox}{\@biditytfloat@caption@box}%
7749                 \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{}%
7750                     \@biditytfloat@caption@font{\@fs@cfont #1:} #2\par%
7751                 \end{minipage}%
7752             \end{lrbox}%
7753             \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}%
7754     }
7755     \newcommand{\fs@biditytfloatplain}{%
7756         \def\@fs@cfont{\@biditytfloat@caption@font}%
7757         \let\@fs@capt\floatc@biditytfloatplain%
7758         \def\@fs@pre{}%
7759         \def\@fs@post{}%
7760         \def\@fs@mid{}%
7761         \let\@fs@iftopcapt\iftrue%
7762     }
7763     \let\fs@biditytfloatplaintop=\fs@biditytfloatplain
7764     \let\floatc@biditytfloatplaintop=\floatc@biditytfloatplain
7765     \newcommand\floatc@biditytfloatruled[2]{%
7766         {\@fs@cfont #1} #2\par%
7767     }
7768     \newcommand\fs@biditytfloatruled{%
7769         \def\@fs@cfont{\@biditytfloat@caption@font}%
7770         \let\@fs@capt\floatc@biditytfloatplain%
7771         \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7772         \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7773         \def\@fs@mid{}%
7774         \let\@fs@iftopcapt\iftrue%
7775     }
7776     \newcommand\fs@biditytfloatboxed{%
7777         \def\@fs@cfont{}%
7778         \let\@fs@capt\floatc@biditytfloatplain%
7779         \def\@fs@pre{%
7780             \setbox\@currbox\vbox{\hbadness10000
7781             \moveleft3.4pt\vbox{\advance\hsize by6.8pt
7782             \hrule \hbox to\hsize{\vrule\kern3pt

```





```

7783         \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7784     }%
7785     \def\@fs@mid{\kern2pt}%
7786     \def\@fs@post{}%
7787     \let\@fs@iftopcapt\iftrue%
7788 }
7789 }{%
7790 % Nothing to do
7791 }
7792 }
7793 \AtBeginDocument{%
7794 \ifpackageloaded{algorithm}{%
7795 % Set the float style to the Tufte version
7796 \ifthenelse{\equal{\ALG@floatstyle}{plain}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\ALG@floatstyle}{list}}{\@fs@mid}{\@fs@post}%
7797 \bidituftefloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBreak to \ALG@floatstyle}%
7798 \floatstyle{bidituftefloat\ALG@floatstyle}%
7799 \restylefloat{algorithm}%
7800 }{%
7801 }{%
7802 % Nothing to do
7803 }
7804 }
7805 \PassOptionsToPackage{caption=false}{subfig}

```

## 54 File `bidituftesidenote.sty`

```

7806 \NeedsTeXFormat{LaTeX2e}
7807 \ProvidesPackage{bidituftesidenote}[2017/08/09 v0.4
7808 bidi implementation of tufte sidenote]
7809 \RequirePackage{xifthen}
7810 \RequirePackage{ragged2e}
7811 \RequirePackage{setspace}
7812 \RequirePackage{biditools}
7813 \def\bidituftesidenotemarginpar{%
7814 \ifhmode
7815 \@bsphack
7816 \@floatpenalty -\@Mii
7817 \else
7818 \@floatpenalty -\@Miii
7819 \fi
7820 \ifinner
7821 \@parmoderr
7822 \@floatpenalty \z@
7823 \else
7824 \@next\@currbox\@freelist{}{}%
7825 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7826 {\@floatpenalty \z@
7827 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7828 \fi
7829 \ifnextchar [\@bidituftesidenotexmpar\@bidituftesidenoteympar}
7830 \long\def\@bidituftesidenotexmpar[#1]#2{%
7831 \@bidituftesidenotesavemarbox\@marbox{#1}%
7832 \@bidituftesidenotesavemarbox\@currbox{#2}%
7833 \@xympar}

```



```

7834 \long\def \@bidityftesidenoteympar#1{%
7835   \@bidityftesidenotesavemarbox\@marbox{#1}%
7836   \global\setbox\@currbox\copy\@marbox
7837   \@xympar}
7838 \long\def \@bidityftesidenotesavemarbox #1#2{%
7839   \global\setbox #1%
7840     \color@vbox
7841     \vtop{%
7842       \hsize\marginparwidth
7843       \@parboxrestore
7844       \@bidityftesidenotemarginparreset
7845       #2%
7846       \@minipagefalse
7847       \outer@nobreak
7848     }%
7849   \color@endbox
7850 }
7851 \def \@bidityftesidenotemarginparreset {%
7852   \reset@font
7853   \normalsize
7854   \@minipagetrue
7855   \everypar{\@minipagefalse\everypar{}}\if@RTL@footnote\beginR\else\beginL\fi}%
7856 }
7857 \def \LTRbidityftesidenotemarginpar{%
7858   \ifhmode
7859     \@bsphack
7860     \@floatpenalty -\@Mii
7861   \else
7862     \@floatpenalty -\@Miii
7863   \fi
7864   \ifinner
7865     \@parmoderr
7866     \@floatpenalty\z@
7867   \else
7868     \@next\@currbox\@freelist{}{}%
7869     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7870     {\@floatpenalty\z@
7871       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7872   \fi
7873   \@ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7874 \long\def \@LTRbidityftesidenotexmpar[#1]#2{%
7875   \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7876   \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7877   \@xympar}
7878 \long\def \@LTRbidityftesidenoteympar#1{%
7879   \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7880   \global\setbox\@currbox\copy\@marbox
7881   \@xympar}
7882 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
7883   \global\setbox #1%
7884     \color@vbox
7885     \vtop{%
7886       \hsize\marginparwidth
7887       \@parboxrestore

```



```

7888      \LTRbidituftesidenotemarginparreset
7889      #2%
7890      \@minipagefalse
7891      \outer@nobreak
7892      }%
7893      \color@endbox
7894  }
7895  \def \LTRbidituftesidenotemarginparreset {%
7896      \reset@font
7897      \normalsize
7898      \@minipagetrue
7899      \everypar{\@minipagefalse\everypar{}\beginL}%
7900  }
7901  \def \RTLbidituftesidenotemarginpar{%
7902      \ifhmode
7903          \@bsphack
7904          \floatpenalty -\@Mii
7905      \else
7906          \floatpenalty-\@Miii
7907      \fi
7908      \ifinner
7909          \@parmoderr
7910          \floatpenalty\z@
7911      \else
7912          \@next\@currbox\@freelist{}\{}%
7913          \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7914          {\floatpenalty\z@
7915           \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
7916      \fi
7917      \ifnextchar [\@RTLbidituftesidenotexmpar\@RTLbidituftesidenoteympar}
7918  \long\def\@RTLbidituftesidenotexmpar[#1]#2{%
7919      \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
7920      \@RTLbidituftesidenotesavemarbox\@currbox{#2}%
7921      \@xympar}
7922  \long\def\@RTLbidituftesidenoteympar#1{%
7923      \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
7924      \global\setbox\@currbox\copy\@marbox
7925      \@xympar}
7926  \long\def \@RTLbidituftesidenotesavemarbox #1#2{%
7927      \global\setbox #1%
7928          \color@vbox
7929          \vtop{%
7930              \hsize\marginparwidth
7931              \@parboxrestore
7932              \@RTLbidituftesidenotemarginparreset
7933              #2%
7934              \@minipagefalse
7935              \outer@nobreak
7936              }%
7937      \color@endbox
7938  }
7939  \def \@RTLbidituftesidenotemarginparreset {%
7940      \reset@font
7941      \normalsize

```



```

7942 \minipagetrue
7943 \everypar{\minipagefalse\everypar{}\beginR}%
7944 }
7945 \newcommand*{\@bidityftesidenote@marginfont}{\normalfont\footnotesize}
7946 \newcommand*{\@bidityftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7947 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7948 \newcommand*{\@bidityftesidenote@sidenote@font}{\@bidityftesidenote@marginfont}
7949 \newcommand*{\@bidityftesidenote@LTRsidenote@font}{\@bidityftesidenote@LTRmarginfont}
7950 \newcommand*{\@bidityftesidenote@RTLSidenote@font}{\@bidityftesidenote@RTLmarginfont}
7951 \newcommand*{\@bidityftesidenote@marginnote@font}{\@bidityftesidenote@marginfont}
7952 \newcommand*{\@bidityftesidenote@LTRmarginnote@font}{\@bidityftesidenote@LTRmarginfont}
7953 \newcommand*{\@bidityftesidenote@RTLmarginnote@font}{\@bidityftesidenote@RTLmarginfont}
7954 \newcommand*{\@bidityftesidenote@citation@font}{\@bidityftesidenote@marginfont}
7955 \newcommand*{\@bidityftesidenote@LTRcitation@font}{\@bidityftesidenote@LTRmarginfont}
7956 \newcommand*{\@bidityftesidenote@RTLCitation@font}{\@bidityftesidenote@RTLmarginfont}
7957 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@sidenote@font}{#1}}
7958 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRsidenote@font}{#1}}
7959 \newcommand*{\setRTLSidenotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLSidenote@font}{#1}}
7960 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@marginnote@font}{#1}}
7961 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRmarginnote@font}{#1}}
7962 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLmarginnote@font}{#1}}
7963 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidityftesidenote@citation@font}{#1}}
7964 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidityftesidenote@LTRcitation@font}{#1}}
7965 \newcommand*{\setRTLCitationfont}[1]{\renewcommand*{\@bidityftesidenote@RTLCitation@font}{#1}}
7966 \newcommand*{\@bidityftesidenote@sidenote@justification}{\@bidityftesidenote@justification@autodetect}
7967 \newcommand*{\@bidityftesidenote@marginnote@justification}{\@bidityftesidenote@justification@autodetect}
7968 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@autodetect}
7969 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
7970 \newcommand{\@bidityftesidenote@margin@par}{%
7971 \setlength{\RaggedRightParindent}{0.5pc}%
7972 \setlength{\JustifyingParindent}{0.5pc}%
7973 \setlength{\parindent}{0.5pc}%
7974 \setlength{\parskip}{0pt}%
7975 }
7976 %%
7977 % Globally sets the length
7978 \ifundefined{gsetlength}{%
7979 \newcommand*{gsetlength}[2]{%
7980 \setlength{#1}{#2}%
7981 \global#1=#1\relax%
7982 }%
7983 }{}
7984
7985 %%
7986 % A function that removes leading and trailing spaces from the supplied macro.
7987 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
7988 % Executing \@bidityftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
7989 % being trimmed of leading and trailing white space.
7990 \catcode`\Q=3
7991 \def\@bidityftesidenote@trim@spaces#1{%
7992 % Use grouping to emulate a multi-token afterassignment queue
7993 \begingroup%
7994 % Put \toks 0 {' into the afterassignment queue
7995 \aftergroup\toks\aftergroup0\aftergroup{%

```



```

7996 % Apply \trimb to the replacement text of #1, adding a leading
7997 % \noexpand to prevent brace stripping and to serve another purpose
7998 % later.
7999 \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
8000 % Transfer the trimmed text back into #1.
8001 \edef#1{\the\toks0}%
8002 }
8003 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
8004 % clean up any leftover bizarre Qs, and trim a leading space. In
8005 % order for \trimc to work properly we need to put back a Q first.
8006 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
8007 % Execute \vfuzz assignment to remove leading space; the \noexpand
8008 % will now prevent unwanted expansion of a macro or other expandable
8009 % token at the beginning of the trimmed text. The \endgroup will feed
8010 % in the \aftergroup tokens after the \vfuzz assignment is completed.
8011 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
8012 \catcode\Q=11
8013 %%
8014 % Citations should go in the margin as sidenotes
8015
8016 \RequirePackage{natbib}
8017 \RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography env
8018 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
8019 \renewcommand\BR@b@bibitem[2][{}]{%
8020   \ifthenelse{\isempty{#1}}{%
8021     {\BR@bibitem{#2}}%
8022     {\BR@bibitem[#1]{#2}}%
8023   \BR@c@bibitem{#2}%
8024 }
8025 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
8026 %%
8027 % Normal \cite behavior
8028 \newcounter{@bidityftesidenote@num@bibkeys}%
8029 \newcommand{\@bidityftesidenote@normal@cite}[2][0pt]{%
8030   % Snag the last bibentry in the list for later comparison
8031   \let\@temp@last@bibkey\@empty%
8032   \for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8033   \sidenote[] [#1]{%
8034     % Loop through all the bibentries, separating them with semicolons and spaces
8035     \normalsize\normalfont\@bidityftesidenote@citation@font%
8036     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8037     \for\@temp@bibkeyx:=#2\do{%
8038       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8039         {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\{and\ }%
8040           \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8041           \bibentry{\@temp@bibkeyx}}%
8042         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8043           \bibentry{\@temp@bibkeyx};\ }%
8044       \stepcounter{@bidityftesidenote@num@bibkeys}%
8045     }%
8046   }%
8047 }
8048 \newcommand{\@bidityfteLTRsidenote@normal@cite}[2][0pt]{%
8049   % Snag the last bibentry in the list for later comparison

```



```

8050 \let\@temp@last@bibkey\@empty%
8051 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8052 \LTRsidenote[] [#1]{%
8053   % Loop through all the bibentries, separating them with semicolons and spaces
8054   \normalsize\normalfont\@bituftesidenote@LTRcitation@font%
8055   \setcounter{\@bituftesidenote@num@bibkeys}{0}%
8056   \@for\@temp@bibkeyx:=#2\do{%
8057     \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8058       {\ifthenelse{\equal{\value{\@bituftesidenote@num@bibkeys}}{0}}{\and\ }%
8059       \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8060       \bibentry{\@temp@bibkeyx}}%
8061       {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8062       \bibentry{\@temp@bibkeyx};\ }%
8063     \stepcounter{\@bituftesidenote@num@bibkeys}%
8064   }%
8065 }%
8066 }
8067 \newcommand{\@bituftesRTLsidenote@normal@cite}[2][Opt]{%
8068   % Snag the last bibentry in the list for later comparison
8069   \let\@temp@last@bibkey\@empty%
8070   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8071   \RTLSidenote[] [#1]{%
8072     % Loop through all the bibentries, separating them with semicolons and spaces
8073     \normalsize\normalfont\@bituftesidenote@citation@font%
8074     \setcounter{\@bituftesidenote@num@bibkeys}{0}%
8075     \@for\@temp@bibkeyx:=#2\do{%
8076       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8077         {\ifthenelse{\equal{\value{\@bituftesidenote@num@bibkeys}}{0}}{\and\ }%
8078         \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8079         \bibentry{\@temp@bibkeyx}}%
8080         {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8081         \bibentry{\@temp@bibkeyx};\ }%
8082       \stepcounter{\@bituftesidenote@num@bibkeys}%
8083     }%
8084   }%
8085 }
8086 %%
8087 % Macros for holding the list of cite keys until after the \sidenote
8088 \gdef\@bituftesidenote@citations{}% list of cite keys
8089 \newcommand\@bituftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite
8090   \ifx\@bituftesidenote@citations\@empty\else
8091     \g@addto@macro\@bituftesidenote@citations{,}% separate by commas
8092   \fi
8093   \g@addto@macro\@bituftesidenote@citations{#1}
8094 }
8095 \newcommand{\@bituftesidenote@print@citations}[1][Opt]{% puts the citations in a margin no
8096   % Snag the last bibentry in the list for later comparison
8097   \let\@temp@last@bibkey\@empty%
8098   \@for\@temp@bibkey:=\@bituftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
8099   \marginpar{%
8100     \hbox{}\vspace*{#1}%
8101     \@bituftesidenote@citation@font%
8102     \@bituftesidenote@citation@justification%
8103     \@bituftesidenote@margin@par% use parindent and parskip settings for marginal text

```



```

8104 \vspace*{-1\baselineskip}%
8105 % Loop through all the bibentries, separating them with semicolons and spaces
8106 \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8107 \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
8108 \ifthenelse{equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8109 {\ifthenelse{equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8110 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8111 \bibentry{\@temp@bibkeyx}}%
8112 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8113 \bibentry{\@temp@bibkeyx};\ }%
8114 \stepcounter{@bidityftesidenote@num@bibkeys}%
8115 }%
8116 }%
8117 }
8118 %%
8119 % \cite behavior when executed within a sidenote
8120 \newcommand{\@bidityftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8121 \newcommand{\@bidityftesidenote@infootnote@cite}[1]{%
8122 \@bidityftesidenote@add@citation{#1}
8123 }
8124 %%
8125 % Set the default \cite style. This is set and reset by the \sidenote command.
8126 \let\cite\@bidityftesidenote@normal@cite
8127 \let\LTRcite\@bidityftesidenote@normal@cite
8128 \let\RTLcite\@bidityftesidenote@normal@cite
8129 %%
8130 % Transform existing \footnotes into \sidenotes
8131 % Sidenote: ``Where God meant footnotes to go.''' ---bidityftesidenote
8132 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional argu
8133 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8134 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8135 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8136 % sidenote's text block.
8137 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark{\@textsuperscript{\@bidityftesidenote
8138 % Set the in-text footnote mark in the same typeface as the body text itself.
8139 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnote
8140 \providecommand*{\multiplefootnotemark}{3sp}
8141 \providecommand*{\multfootsep}{,}%
8142 \bidi@patch@AfterPackage{bidi}{%
8143 \renewcommand{\@footnotemark}{%
8144 \leavevmode%
8145 \ifhmode%
8146 \edef\@x@sf{\the\spacefactor}%
8147 \@bidityftesidenote@check@multiple@sidenotes%
8148 \nobreak%
8149 \fi%
8150 \@makefnmark%
8151 \ifhmode\spacefactor\@x@sf\fi%
8152 \relax%
8153 }%
8154 }
8155 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{%
8156 \ifdim\lastkern=\multiplefootnotemark\relax%
8157 \edef\@x@sf{\the\spacefactor}%

```



```

8158 \unkern%
8159 \textsuperscript{\multifootsep}%
8160 \spacefactor\@x@sf\relax%
8161 \fi
8162 }
8163 \bidi@patch@AfterPackage{bidi}{%
8164 \renewcommand\@footnotetext[2][0pt]{%
8165 \bidityftesidenotemarginpar{%
8166 \hbox{}}\vspace*{#1}%
8167 \def\baselinestretch {\setspace@singlespace}%
8168 \reset@font%
8169 \bidi@@footnotetext@font% \reset@font\footnotesize%
8170 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8171 \vspace*{-1\baselineskip}\noindent%
8172 \protected@edef\@currentlabel{%
8173 \csname p@footnote\endcsname\@thefnmark%
8174 }%
8175 \color@begingroup%
8176 \makefnintext{%
8177 \ignorespaces#2%
8178 }%
8179 \color@endgroup%
8180 }%
8181 }%
8182 \renewcommand\@LTRfootnotetext[2][0pt]{%
8183 \LTRbidityftesidenotemarginpar{%
8184 \hbox{}}\vspace*{#1}%
8185 \def\baselinestretch {\setspace@singlespace}%
8186 \reset@font%
8187 \bidi@@LTRfootnotetext@font% \reset@font\footnotesize%
8188 \@LTRbidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8189 \vspace*{-1\baselineskip}\noindent%
8190 \protected@edef\@currentlabel{%
8191 \csname p@footnote\endcsname\@thefnmark%
8192 }%
8193 \color@begingroup%
8194 \makefnintext{%
8195 \ignorespaces#2%
8196 }%
8197 \color@endgroup%
8198 }%
8199 }%
8200 \renewcommand\@RTLfootnotetext[2][0pt]{%
8201 \RTLbidityftesidenotemarginpar{%
8202 \hbox{}}\vspace*{#1}%
8203 \def\baselinestretch {\setspace@singlespace}%
8204 \reset@font%
8205 \bidi@@RTLfootnotetext@font% \reset@font\footnotesize%
8206 \@RTLbidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8207 \vspace*{-1\baselineskip}\noindent%
8208 \protected@edef\@currentlabel{%
8209 \csname p@footnote\endcsname\@thefnmark%
8210 }%
8211 \color@begingroup%

```





```

8212     \@makefnintext{%
8213         \ignorespaces#2%
8214     }%
8215     \color@endgroup%
8216 }%
8217 }%
8218 }
8219 %
8220 % Define \sidenote command. Can handle \cite.
8221 \newlength{\@bidityftesidenote@sidenote@vertical@offset}
8222 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
8223 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8224 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
8225     \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8226     \gdef\@bidityftesidenote@citations{}% clear out any old citations
8227     \ifthenelse{\NOT\isempty{#2}}{%
8228         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8229     }{%
8230         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8231     }%
8232     \ifthenelse{\isempty{#1}}{%
8233         % no specific footnote number provided
8234         \stepcounter\@mpfn%
8235         \protected@xdef\@thefnmark{\thempfn}%
8236         \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8237     }{%
8238         % specific footnote number provided
8239         \begingroup%
8240             \csname c@\@mpfn\endcsname #1\relax%
8241             \unrestored@protected@xdef\@thefnmark{\thempfn}%
8242         \endgroup%
8243         \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8244     }%
8245     \@bidityftesidenote@print@citations% print any citations
8246     \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8247     \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8248     \let\RTLCite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8249     \unskip\ignorespaces% remove extra white space
8250     \kern-\multiplefootnotemark% remove \kern left behind by sidenote
8251     \kern\multiplefootnotemark\relax% add new \kern here to replace the one we yanked
8252 }
8253 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8254     \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8255     \gdef\@bidityftesidenote@citations{}% clear out any old citations
8256     \ifthenelse{\NOT\isempty{#2}}{%
8257         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8258     }{%
8259         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8260     }%
8261     \ifthenelse{\isempty{#1}}{%
8262         % no specific footnote number provided
8263         \stepcounter\@mpfn%
8264         \protected@xdef\@thefnmark{\thempfn}%
8265         \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%

```



```

8266 }{%
8267   % specific footnote number provided
8268   \begingroup%
8269     \csname c@\@mpfn\endcsname #1\relax%
8270     \unrestored@protected@xdef\@thefnmark{\thempfn}%
8271   \endgroup%
8272   \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8273 }%
8274 \@bidityftesidenote@print@citations%          print any citations
8275 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8276 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8277 \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8278 \unskip\ignorespaces%                          remove extra white space
8279 \kern-\multiplefootnotemarker%                  remove \kern left behind by sidenote
8280 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8281 }
8282 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8283   \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8284   \gdef\@bidityftesidenote@citations{}%         clear out any old citations
8285   \ifthenelse{\NOT\isempty{#2}}{%
8286     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8287   }{%
8288     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8289   }%
8290   \ifthenelse{\isempty{#1}}{%
8291     % no specific footnote number provided
8292     \stepcounter\@mpfn%
8293     \protected@xdef\@thefnmark{\thempfn}%
8294     \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8295   }{%
8296     % specific footnote number provided
8297     \begingroup%
8298       \csname c@\@mpfn\endcsname #1\relax%
8299       \unrestored@protected@xdef\@thefnmark{\thempfn}%
8300     \endgroup%
8301     \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8302   }%
8303   \@bidityftesidenote@print@citations%          print any citations
8304   \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8305   \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8306   \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8307   \unskip\ignorespaces%                          remove extra white space
8308   \kern-\multiplefootnotemarker%                  remove \kern left behind by sidenote
8309   \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8310 }
8311 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
8312 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}
8313 \newcommand{\RTLSidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
8314 \bidi@patch@AfterPackage{bidi}{%
8315   \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
8316   \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%
8317   \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
8318 }
8319 %%

```



```

8320 % Sidenote without the footnote mark
8321 \newcommand\marginnote[2][Opt]{%
8322   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8323   \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8324   \bidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\@bidityftesidenote@print@citations%
8325   \@bidityftesidenote@print@citations%             print any citations
8326   \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite command
8327   \let\LTRcite\@bidityfteLTRsidenote@normal@cite%  go back to using normal in-text \LTR
8328   \let\RTLcite\@bidityfteRTLsidenote@normal@cite%  go back to using normal in-text \RTL
8329 }
8330 \newcommand\LTRmarginnote[2][Opt]{%
8331   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8332   \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8333   \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\@bidityftesidenote@print@citations%
8334   \@bidityftesidenote@print@citations%             print any citations
8335   \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite command
8336   \let\LTRcite\@bidityfteLTRsidenote@normal@cite%  go back to using normal in-text \LTR
8337   \let\RTLcite\@bidityfteRTLsidenote@normal@cite%  go back to using normal in-text \RTL
8338 }
8339 \newcommand\RTLmarginnote[2][Opt]{%
8340   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8341   \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8342   \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\@bidityftesidenote@print@citations%
8343   \@bidityftesidenote@print@citations%             print any citations
8344   \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite command
8345   \let\LTRcite\@bidityfteLTRsidenote@normal@cite%  go back to using normal in-text \LTR
8346   \let\RTLcite\@bidityfteRTLsidenote@normal@cite%  go back to using normal in-text \RTL
8347 }

```

## 55 File bidityftetoc.sty

```

8348 \NeedsTeXFormat{LaTeX2e}
8349 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8350 bidi implementation of tuftes toc]
8351 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8352 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
8353 \newcommand{\@bidityftetoc@error}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8354 %%
8355 % Turn off section numbering
8356 \setcounter{secnumdepth}{-1}
8357 \newboolean{\@bidityftetoc@toc}
8358 \setboolean{\@bidityftetoc@toc}{true}
8359 \DeclareOption{notoc}{\setboolean{\@bidityftetoc@toc}{false}}
8360 \DeclareOption{toc}{\setboolean{\@bidityftetoc@toc}{true}}
8361 \ProcessOptions
8362 %%
8363 % Make Tuftian-style section headings and TOC formatting
8364 \bidityftetoc@patch@AfterPackage{bidi}{%
8365   \titleformat{\chapter}%
8366     [display]% shape
8367     {\relax\ifthenelse{\NOT\boolean{\@bidityftefloat@symmetric}}{\begin{fullwidth}}{}}% format
8368     {\itshape\huge\thechapter}% label
8369     {0pt}% horizontal separation between label and title body
8370     {\huge\rmfamily\itshape}% before the title body

```



```

8371 [\ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}{\end{fullwidth}}{}]% after the title
8372 \titleformat{\section}%
8373   [hang]% shape
8374   {\normalfont\Large\itshape}% format applied to label+text
8375   {\thesection}% label
8376   {1em}% horizontal separation between label and title body
8377   {}% before the title body
8378   []% after the title body
8379 \titleformat{\subsection}%
8380   [hang]% shape
8381   {\normalfont\large\itshape}% format applied to label+text
8382   {\thesubsection}% label
8383   {1em}% horizontal separation between label and title body
8384   {}% before the title body
8385   []% after the title body
8386 \titleformat{\paragraph}%
8387   [runin]% shape
8388   {\normalfont\itshape}% format applied to label+text
8389   {\theparagraph}% label
8390   {1em}% horizontal separation between label and title body
8391   {}% before the title body
8392   []% after the title body
8393 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8394 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8395 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
8396 }
8397 % Subsubsection and following section headings shouldn't be used.
8398 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8399 \renewcommand\subsubsection{%
8400   \biditytetocError{\noexpand\subsubsection is undefined by this class.%
8401     \MessageBreak See Robert Bringhurst's _The Elements of
8402     \MessageBreak Typographic Style_, section 4.2.2.
8403     \MessageBreak \noexpand\subsubsection was used}
8404     {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8405     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8406     \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8407 }
8408 \renewcommand\subparagraph{%
8409   \biditytetocError{\noexpand\subparagraph is undefined by this class.%
8410     \MessageBreak See Robert Bringhurst's _The Elements of
8411     \MessageBreak Typographic Style_, section 4.2.2.
8412     \MessageBreak \noexpand\subparagraph was used}
8413     {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8414     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8415     \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8416 }
8417 % Formatting for main TOC (printed in front matter)
8418 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8419 \ifthenelse{\boolean{@biditytetoc@toc}}{%
8420   \bidity@patch@AfterPackage{bidi}{%
8421     \titlecontents{part}% FIXME
8422     [0em] % distance from left margin
8423     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8424     {\contentslabel{2em}} % before w/label (label = ``II'')

```



```

8425 {} % before w/o label
8426 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8427 [\end{fullwidth}] % after
8428 \titlecontents{chapter}%
8429 [0em] % distance from left margin
8430 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global format)
8431 {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8432 {\hspace*{0em}} % before w/o label
8433 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8434 [\end{fullwidth}] % after
8435 \titlecontents{section}% FIXME
8436 [0em] % distance from left margin
8437 {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format)
8438 {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8439 {\hspace*{2em}} % before w/o label
8440 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8441 [\end{fullwidth}] % after
8442 \titlecontents{subsection}% FIXME
8443 [0em] % distance from left margin
8444 {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format)
8445 {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8446 {\hspace*{4em}} % before w/o label
8447 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8448 [\end{fullwidth}] % after
8449 \titlecontents{paragraph}% FIXME
8450 [0em] % distance from left margin
8451 {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global format)
8452 {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8453 {\hspace*{6em}} % before w/o label
8454 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8455 [\end{fullwidth}] % after
8456}%
8457}{
8458%%
8459% Format lists of figures/tables
8460\renewcommand\listoffigures{%
8461 \ifundefined{chapter}%
8462 {\section*{\listfigurename}}%
8463 {\chapter*{\listfigurename}}%
8464% \begin{fullwidth}%
8465 \@starttoc{lof}%
8466% \end{fullwidth}%
8467 }
8468\renewcommand\listoftables{%
8469 \ifundefined{chapter}%
8470 {\section*{\listtablename}}%
8471 {\chapter*{\listtablename}}%
8472% \begin{fullwidth}%
8473 \@starttoc{lot}%
8474% \end{fullwidth}%
8475 }
8476\newcommand{\@biditytetoc@lof@line}[2]{%
8477 % #1 is the figure/table number and its caption text
8478 % #2 is the page number on which the figure/table appears

```



```

8479 \leftskip 0.0em
8480 \rightskip 0em
8481 \parfillskip 0em plus 1fil
8482 \parindent 0.0em
8483 \@afterindenttrue
8484 \interlinepenalty\@M
8485 \leavevmode
8486 \@tempdima 2.0em
8487 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8488 \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
8489 {#1}\nobreak\quad\nobreak#2%
8490 \par%
8491 }
8492 \renewcommand*\l@figure{\@biditytetoc@lof@line}
8493 \let\l@table\l@figure

```

## 56 File biditytgeneralstructure.sty

```

8494 \NeedsTeXFormat{LaTeX2e}
8495 \ProvidesPackage{biditytgeneralstructure}[2011/06/18 v0.1
8496 bidi implementation of tufte general structure]
8497 \renewcommand\small{%
8498   \@setfontsize\small\@ixpt{12}%
8499   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8500   \abovedisplayshortskip \z@ \@plus2\p@
8501   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
8502   \def\@listi{\leftmargin\leftmargini
8503             \topsep 4\p@ \@plus2\p@ \@minus2\p@
8504             \parsep 2\p@ \@plus\p@ \@minus\p@
8505             \itemsep \parsep}%
8506   \belowdisplayskip \abovedisplayskip
8507 }
8508 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viiipt}
8509 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vipt}
8510 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8511 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
8512 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8513 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8514 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8515 \setlength\leftmargini {1pc}
8516 \setlength\leftmarginii {1pc}
8517 \setlength\leftmarginiii {1pc}
8518 \setlength\leftmarginiv {1pc}
8519 \setlength\leftmarginv {1pc}
8520 \setlength\leftmarginvi {1pc}
8521 \setlength\labelsep {0.5pc}
8522 \setlength\labelwidth {\leftmargini}
8523 \addtolength\labelwidth{-\labelsep}
8524 \setlength{\parindent}{1.0pc}%
8525 \setlength{\parskip}{0pt}%
8526 \RequirePackage{ragged2e}
8527 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8528 % Paragraph indentation and separation for normal text
8529 \newcommand{\@biditytgeneralstructure@reset@par}{%

```



```

8530 \setlength{\RaggedRightParindent}{1.0pc}%
8531 \setlength{\JustifyingParindent}{1.0pc}%
8532 \setlength{\parindent}{1pc}%
8533 \setlength{\parskip}{Opt}%
8534 }
8535 \@biditytgeneralstructure@reset@par
8536 % Require paralist package for tighter lists
8537 \RequirePackage{paralist}
8538 % Add rightmargin to compactenum
8539 \def\@compactenum@{%
8540 \expandafter\list\csname label\@enumctr\endcsname{%
8541 \usecounter{\@enumctr}%
8542 \rightmargin=2em% added this
8543 \parsep\plparsep
8544 \itemsep\plitemsep
8545 \topsep\pltopsep
8546 \partopsep\plpartopsep
8547 \def\makelabel##1{\hss\llap{##1}}}}
8548 %%
8549 % An environment for paragraph-style section
8550 \providecommand\newthought[1]{%
8551 \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8552 \noindent\textbf{#1}%
8553 }
8554 %%
8555 % Redefine the display environments (quote, quotation, etc.)
8556 \renewenvironment{verse}
8557 {\let\\@centercr
8558 \list{}\itemsep \z@
8559 \itemindent -1pc%
8560 \listparindent\itemindent
8561 \rightmargin \leftmargin
8562 \advance\leftmargin 1pc}%
8563 \small%
8564 \item\relax}
8565 {\endlist}
8566 \renewenvironment{quotation}
8567 {\list{}\listparindent 1pc%
8568 \itemindent \listparindent
8569 \rightmargin \leftmargin
8570 \parsep \z@ \@plus\p@}%
8571 \small%
8572 \item\relax\noindent\ignorespaces}
8573 {\endlist}
8574 \renewenvironment{quote}
8575 {\list{}\listparindent\leftmargin}%
8576 \small%
8577 \item\relax}
8578 {\endlist}
8579 % Italicize description run-in headings (instead of the default bold)
8580 \renewcommand*{descriptionlabel}[1]{\hspace\labelsep\normalfont\em #1}
8581 %%
8582 % Redefine \bibsection to not mark the running heads.
8583 % (Code modified from natbib.sty.)

```



```

8584 \@ifundefined{chapter}%
8585   {\renewcommand\bibsection{\section*{\refname}}}
8586   {\@ifundefined{NAT@sectionbib}%
8587     {\renewcommand\bibsection{\chapter{\bibname}}}
8588     {\renewcommand\bibsection{\section*{\bibname}}}}
8589 \RequirePackage{multicol}
8590 \renewenvironment{theindex}{%
8591 \@ifundefined{chapter}%
8592   {\section*{\indexname}}%
8593   {\chapter{\indexname}}%
8594   \begin{fullwidth}%
8595   \small%
8596   \parskip0pt%
8597   \parindent0pt%
8598   \let\item\@idxitem%
8599   \begin{multicols}{3}%
8600 }{%
8601   \end{multicols}%
8602   \end{fullwidth}%
8603 }
8604 \AtBeginDocument{%
8605 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8606 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8607 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
8608 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8609 \newcommand{\lettergroup}[1]{}% swallow the letter heading in the index

```

## 57 File `bidituftehyperref.sty`

```

8610 \NeedsTeXFormat{LaTeX2e}
8611 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8612 bidi implementation of tufte hyperref]
8613 %%
8614 % Color
8615 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8616 \newboolean{@bidituftehyperref@loadhyper}
8617 \setboolean{@bidituftehyperref@loadhyper}{true}
8618 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8619 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8620 \ProcessOptions
8621 %% Loads the hyperref package and sets some default options.
8622 \newcommand{\bidituftehyperrefLoadHyperref}{%
8623 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8624 \hypersetup{%
8625   bookmarksdepth = section,
8626   citecolor = DarkGreen,
8627   linkcolor = DarkBlue,
8628   pagecolor = DarkBlue,
8629   urlcolor = DarkGreen,
8630 }%
8631 }
8632 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
8633   \bidituftehyperrefLoadHyperref%
8634 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.

```





```

8635 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8636 }

```

## 58 File `bidituftetitle.sty`

```

8637 \NeedsTeXFormat{LaTeX2e}
8638 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
8639 bidi implementation of tufte title]
8640 \RequirePackage{biditools}
8641 %%
8642 % `titlepage' option -- creates a full title page with \maketitle
8643 \newboolean{@bidituftetitle@titlepage}
8644 \DeclareOption{titlepage}{\setboolean{@bidituftetitle@titlepage}{true}}
8645 \DeclareOption{notitlepage}{\setboolean{@bidituftetitle@titlepage}{false}}
8646 % Default `book' and `handout' options
8647 \ifclassloaded{book}{%
8648 \ExecuteOptions{titlepage}}{%
8649 \ifclassloaded{article}{%
8650 \ExecuteOptions{notitlepage}}%
8651 {}}
8652 \ProcessOptions
8653 %%
8654 % Modified \title, \author, and \date commands. These store the
8655 % (footnote-less) values in \plaintitle, \plainauthor, and \thedate, respectively.
8656 \newcommand{\plaintitle}{}% plain-text-only title
8657 \newcommand{\plainauthor}{}% plain-text-only author
8658 \newcommand{\plainpublisher}{}% plain-text-only publisher
8659 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8660 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8661 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8662 \newcommand{\@publisher}{}% full publisher with \thanks{}
8663 \newcommand{\thedate}{\today}
8664 \bidi@patch@AfterPackage{bidi}{%
8665 \renewcommand{\thanks}[1]{\footnote{#1}}
8666 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8667 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8668 }
8669 \renewcommand{\title}[2][]{%
8670 \gdef{@title{#2}}%
8671 \begingroup%
8672 % TODO store contents of \thanks command
8673 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8674 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8675 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8676 \protected@xdef\thanklesstitle{#2}%
8677 \endgroup%
8678 \ifthenelse{\isempty{#1}}%
8679 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8680 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8681 \@ifundefined{hypersetup}%
8682 {}% hyperref is not loaded; do nothing
8683 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8684 }
8685 \let\@author\@empty% suppress default latex.ltx ``no author'' warning

```



```

8686 \renewcommand{\author}[2][]{%
8687 \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
8688 \begingroup%
8689 % TODO store contents of \thanks command
8690 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8691 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8692 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8693 \protected@xdef\thanklessauthor{#2}%
8694 \endgroup%
8695 \ifthenelse{\isempty{#1}}%
8696 {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8697 {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8698 \@ifundefined{hypersetup}%
8699 {}% hyperref is not loaded; do nothing
8700 {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8701 }
8702 \renewcommand{\date}[1]{}%
8703 \gdef\@date{#1}%
8704 \begingroup%
8705 % TODO store contents of \thanks command
8706 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8707 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8708 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8709 \protected@xdef\thedata{#1}%
8710 \endgroup%
8711 }
8712 %%
8713 % Provides a \publisher command to set the publisher
8714 \newcommand{\publisher}[2][]{%
8715 \gdef\@publisher{#2}%
8716 \begingroup%
8717 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8718 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8719 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8720 \protected@xdef\thanklesspublisher{#2}%
8721 \endgroup%
8722 \ifthenelse{\isempty{#1}}%
8723 {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8724 {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8725 }
8726 %%
8727 % Produces a full title page
8728 \newcommand{\maketitlepage}[0]{}%
8729 \cleardoublepage%
8730 {%
8731 \bfseries%
8732 \begin{fullwidth}%
8733 \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8734 \vspace{11.5pc}%
8735 \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8736 \vfill%
8737 \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8738 \end{fullwidth}%
8739 }

```



```

8740 \thispagestyle{empty}%
8741 \clearpage%
8742 }
8743 %%
8744 % Title block
8745 \bidi@AfterEndPreamble{%
8746 \renewcommand{\maketitle}{%
8747 \newpage%
8748 \global\@topnum\z@% prevent floats from being placed at the top of the page
8749 \begingroup%
8750 \setlength{\parindent}{0pt}%
8751 \setlength{\parskip}{4pt}%
8752 \let\@title\@empty%
8753 \let\@author\@empty%
8754 \let\@date\@empty%
8755 \gdef\@title{\LARGE\itshape\@title\par}%
8756 \gdef\@author{\Large\itshape\@author\par}%
8757 \gdef\@date{\Large\itshape\@date\par}%
8758 \@title%
8759 \@author%
8760 \@date%
8761 \endgroup%
8762 \thispagestyle{plain}% suppress the running head
8763 }%
8764 }
8765 %%
8766 % Title page (if the 'titlepage' option was passed to the bidentufte-handout
8767 % class.)
8768 \bidi@AfterEndPreamble{%
8769 \ifthenelse{\boolean{@bidentufte@titlepage}}{
8770 {\renewcommand{\maketitle}{\maketitlepage}}
8771 {}
8772 }
8773 %%
8774 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8775 % without headers and footers
8776 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8777 \hbox{}
8778 %\vspace*{\fill}
8779 %\begin{center}
8780 % This page intentionally contains only this sentence.
8781 %\end{center}
8782 %\vspace{\fill}
8783 \thispagestyle{empty}
8784 \newpage
8785 \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

## 59 File bidentufte-handout.cls

```

8786 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8787 \ProvidesClass{bidentufte-handout}[2011/06/18 v0.1 bidentufte-handout class]
8788 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8789 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftefloat}}
8790 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetoc}}

```



```

8791 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytethehyperref}}
8792 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytettetitle}}
8793 \ProcessOptions\relax
8794 \LoadClass{article}
8795 \RequirePackage{biditytethefloat}
8796 \RequirePackage{biditytettesidenote}
8797 \RequirePackage{biditytettetoc}
8798 \RequirePackage{biditytethegeneralstructure}
8799 \RequirePackage{biditytethehyperref}
8800 \RequirePackage{biditytettetitle}
8801 \renewenvironment{abstract}
8802   {\begin{quotation}}
8803   {\end{quotation}}
8804 \AtBeginDocument{%
8805   \IfFileExists{biditytethe-handout.cfg}
8806     {\input{biditytethe-handout.cfg}}
8807     \ClassInfo{biditytethe-handout}{Loading biditytethe-handout configuration file \@gobble}}
8808   {}%
8809 }

```

## 60 File biditytethe-book.cls

```

8810 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8811 \ProvidesClass{biditytethe-book}[2011/06/18 v0.1 biditytethe-book class]
8812 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8813 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytethefloat}}
8814 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytettetoc}}
8815 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytethehyperref}}
8816 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytettetitle}}
8817 \ProcessOptions\relax
8818 \LoadClass{book}
8819 \RequirePackage{biditytethefloat}
8820 \RequirePackage{biditytettesidenote}
8821 \RequirePackage{biditytettetoc}
8822 \RequirePackage{biditytethegeneralstructure}
8823 \RequirePackage{biditytethehyperref}
8824 \RequirePackage{biditytettetitle}
8825 %%
8826 % Set up any book-specific stuff now
8827 %%
8828 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8829 % to the opening page of Chapter 1. The running heads, when they appear,
8830 % contain only the (arabic) page number in the outside corner.
8831 %\newif\if@mainmatter \@mainmattertrue
8832 \renewcommand\frontmatter{%
8833   \cleardoublepage%
8834   \@mainmatterfalse%
8835   \pagenumbering{arabic}%
8836   %\pagestyle{plain}%
8837   \fancyhf{}%
8838   \ifthenelse{\boolean{@biditytethefloat@twoside}}{%
8839     {\fancyhead[LE,RO]{\thepage}}%
8840     {\fancyhead[RE,RO]{\thepage}}%
8841 }

```



```

8842 %%
8843 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8844 % numbering---it continues where it left off in the front matter.
8845 \renewcommand\mainmatter{%
8846   \cleardoublepage%
8847   \@mainmattertrue%
8848   \fancyhf{}%
8849   \ifthenelse{\boolean{@bidituftefloat@twoside}}%
8850     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8851     \fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8852     \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}% chapter title
8853     {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
8854 }
8855 %%
8856 % The back matter contains appendices, indices, glossaries, endnotes,
8857 % bibliographies, list of contributors, illustration credits, etc.
8858 \renewcommand\backmatter{%
8859   \if@openright%
8860     \cleardoublepage%
8861   \else%
8862     \clearpage%
8863   \fi%
8864   \@mainmatterfalse%
8865 }
8866 %%
8867 % Only show the chapter titles in the table of contents
8868 \setcounter{tocdepth}{0}
8869 \AtBeginDocument{%
8870 \IfFileExists{biditufte-book.cfg}
8871   {\input{biditufte-book.cfg}
8872     \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
8873   {}%
8874 }

```

## 61 File bidipoem.sty

```

8875 \NeedsTeXFormat{LaTeX2e}
8876 \ProvidesPackage{bidipoem}%
8877 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8878
8879 % Usage:
8880 %
8881 % \Setversedim #1#2 % define the layout (within a group):
8882 % #1 = length of both half-verses
8883 % #2 = separation distance = length of a connection, if present
8884 % Variant:
8885 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8886 % #1 = length of first (=right) half-verse
8887 % #2 = length of second (=left) half-verse
8888 % #3 = separation distance = length of a connection, if present
8889 %
8890 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8891 % #1 = text of first (=right) half-verse
8892 % #2 = text of second (=left) half-verse

```



```

8893 % Variant:
8894 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8895 % #1 = text of first (=right) half-verse
8896 % #2 = text of connection
8897 % #3 = text of second (=left) half-verse
8898 %
8899 % Alternative (if preferred):
8900 %
8901 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8902
8903
8904 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8905
8906 % define the layout, verses will be centered
8907
8908 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8909 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8910
8911 \newcommand*{\Setversesdim}[2]{% set lengths of half-verse, [separation]
8912 \bidipoem@hvind \textwidth
8913 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8914 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8915 \bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem@
8916
8917 \def \bidipoem@set@verseI [#1]{% optional parameter
8918 \bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
8919
8920 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8921 \advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
8922 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8923
8924 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8925 \ifdim Opt > \bidipoem@hvind %
8926 \bidipoem@spreadbox \bidipoem@hvlen {#1}\ \hfill % first block
8927 \else
8928 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8929 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8930 \bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
8931 \par }
8932
8933 % macro for two half verses
8934 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8935 \ifx [#2\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}[]}%
8936 \else\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8937 \bidipoem@half@verses@next}
8938
8939 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8940 \traditionalconnverses {#1}{#2}{#3}}
8941
8942
8943 {\catcode\^^M=\active % these lines must end with %
8944 \gdef\traditionalpoem@obeylines{\catcode\^^M=\active \let^^M\traditionalpoem@par}%
8945 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8946 {\catcode\^^M=\active % these lines must end with %

```



```

8947 \gdef\modernpoem@obeylines{\catcode\^^M\active \let^^M\modernpoem@par}%
8948 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8949 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8950 \def\poemmarginskip{1em plus 1fil minus 1em}
8951 \def\poemextrabaselineskip{0\baselineskip}
8952 \def\poemskip{\medskip}
8953 \newcommand{\bidipoem@openbox}{\leavevmode
8954 \hbox to.77778em{%
8955 \hfil\vrule
8956 \vbox to.675em{\hrule width.6em\vfil\hrule}%
8957 \vrule\hfil}}
8958 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
8959 \newdimen\versewidth
8960 \newtoks\bidipoem@p@ftn
8961 \def\poem@verse#1{%
8962 \ifdim\wd#1>\new@poem@width
8963 \xdef\new@poem@width{\the\wd#1}%
8964 \ifdim\new@poem@width>\poem@width
8965 \xdef\poem@width{\new@poem@width}%
8966 \global\let\poem@needrun\relax
8967 \fi
8968 \fi
8969 \hbox to\poem@width{\unhbox#1}%
8970 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
8971 }
8972 \def\poem@linebegin{\vadjust{\hskip\@flushglue\hskip\poemmarginskip\relax}
8973 \def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust{}}
8974 \def\poem@lineversesep{%
8975 \nobreak
8976 \hskip\z@ plus 1filll%
8977 \penalty600%
8978 \hskip\poemcolsepskip
8979 \hskip\z@ plus -2filll%
8980 \vadjust{}}%
8981 \nobreak
8982 \hskip\z@ plus 1filll%
8983 }
8984 \def\poem@lineparsebegin{%
8985 \halign\bgroup
8986 \global\setbox\verse@i=\hbox{%
8987 \let\@footnotetext\bidipoem@p@ftntext%
8988 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8989 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8990 \let\@xfootnotenext\bidipoem@p@xftntext%
8991 \let\@xfootnote\bidipoem@p@xfootnote%
8992 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8993 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8994 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8995 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8996 \ignorespaces##\unskip}&&
8997 \global\setbox\verse@ii=\hbox{%
8998 \let\@footnotetext\bidipoem@p@ftntext%
8999 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9000 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%

```



```

9001 \let\@xfootnotenext\bidipoem@p@xftntext%
9002 \let\@xfootnote\bidipoem@p@xfootnote%
9003 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9004 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9005 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9006 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9007 \ignorespaces##\unskip}
9008 \cr
9009 }
9010 \def\poem@lineparseend{%
9011 \crr\egroup
9012 \vskip-\baselineskip
9013 }
9014 \def\traditionalpoem@cr{%
9015 \cr\poem@line
9016 }
9017 \newbox\verse@i
9018 \newbox\verse@ii
9019 \newif\ifpoem@started
9020
9021 \def\poem@line{%
9022 \poem@lineparseend
9023 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
9024 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
9025 \ifpoem@started
9026 \ifdim\wd\verse@ii>\z@\else
9027 \nopagebreak[3]
9028 \fi
9029 \leavevmode
9030 \poem@linebegin
9031 \poem@verse\verse@i
9032 \ifdim\wd\verse@ii>\z@
9033 \poem@lineversesep
9034 \poem@verse\verse@ii
9035 \fi
9036 \poem@lineend
9037 % \nopagebreak
9038 \par
9039 \vskip\poemextrabaselineskip
9040 \fi
9041 \poem@lineparsebegin
9042 }
9043 \def\@traditionalpoem{%
9044 \stepcounter{poem@no}
9045 \ifnum\max@poem@no<\number\c@poem@no%
9046 \xdef\poem@width{\z@}%
9047 \else
9048 \xdef\poem@width{\poem@prop{poem@width}}%
9049 \fi
9050 \xdef\new@poem@width{\z@}%
9051 \global\versewidth=\poem@width
9052 \poemskip\par
9053 \begingroup
9054 \tabskip=\z@

```





```

9055 \parskip=\z@
9056 \parindent=\z@
9057 \parfillskip=\z@
9058 \rightskip=\z@
9059 \leftskip=\z@
9060 \widowpenalty=10000% No break between verses of the same line.
9061 \clubpenalty=10000% Same as above. Not really needed.
9062 \def\newblock{\hfil\poemblocksep\hfil\null}%
9063 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9064 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
9065 \global\poem@startedfalse
9066 \csname poem@obeylines\endcsname
9067 \let\poem@obeylines\relax
9068 \poem@lineparsebegin
9069 }
9070 \def\endtraditionalpoem{%
9071 \cr
9072 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9073 \noalign{%
9074 \skip0=\poemextrabaselineskip
9075 \vskip-\skip0
9076 \vskip-\baselineskip
9077 }%
9078 \fi\fi
9079 \poem@lineparseend
9080 \endgroup
9081 \par
9082 \vskip\baselineskip
9083 \poemskip
9084 \ifdim\new@poem@width<\poem@width
9085 \global\let\poem@needrun\relax
9086 \fi
9087 \poem@write@aux{\poem@width@romannumeral\c@poem@no}{\new@poem@width}%
9088 \ifx\AtEndDocument\undefined\poem@finish\fi
9089 \endparenv
9090 }
9091
9092
9093 \long\def\bidipoem@p@ftntext#1{%
9094 \edef\@temp{x{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}}%
9095 \global\bidipoem@p@ftn\expandafter{\@temp{x{#1}}}%
9096 \long\def\bidipoem@p@LTRftntext#1{%
9097 \edef\@temp{xii{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}}%
9098 \global\bidipoem@p@ftn\expandafter{\@temp{xii{#1}}}%
9099 \long\def\bidipoem@p@RTLftntext#1{%
9100 \edef\@temp{xii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}}%
9101 \global\bidipoem@p@ftn\expandafter{\@temp{xii{#1}}}%
9102
9103 \long\def\bidipoem@p@xftntext[#1]#2{%
9104 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}%
9105
9106 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9107 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}%
9108

```



```

9109 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
9110   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}
9111
9112 \def\bidipoem@p@xfootnote[#1]{%
9113   \begingroup
9114     \csname c@\@mpfn\endcsname #1\relax
9115     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9116   \endgroup
9117   \@footnotemark\bidipoem@p@xftntext[#1]}
9118
9119 \def\bidipoem@p@xLTRfootnote[#1]{%
9120   \begingroup
9121     \csname c@\@mpfn\endcsname #1\relax
9122     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9123   \endgroup
9124   \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9125
9126 \def\bidipoem@p@xRTLfootnote[#1]{%
9127   \begingroup
9128     \csname c@\@mpfn\endcsname #1\relax
9129     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9130   \endgroup
9131   \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9132
9133
9134
9135 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
9136 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey
9137 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9138 \def\poem@finish{%
9139 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9140 \ifx\poem@needrun\relax
9141 \PackageWarning{bidipoem}{Unjustified poem.  Rerun TeX to get poem right}%
9142 \global\let\poem@needrun\undefined
9143 \fi
9144 }
9145 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9146 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9147 \ifx\max@poem@no\undefined
9148   \def\max@poem@no{0}%
9149 \fi
9150 \newcommand{\poem@prop}[1]{\@nameuse{#1@\romannumeral\c@poem@no}}
9151 \newcommand{\poem@write@aux}[2]{%
9152   \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9153   \@x
9154 }
9155 \def\@modernpoem{%
9156 \par
9157 \begingroup
9158 \parskip=\z@
9159 \parindent=\z@
9160 \def\[{ \@settab\@tabplus\ignorespaces}%
9161 \def\]\@tabminus\ignorespaces}%
9162 \def\newblock{\poemblocksep}%

```



```

9163 \let\newpoem@tabcr\@tabcr
9164 \def\modernpoem@par{% Redefine \par for possible \obeylines
9165   \ifpoem@started\else
9166     \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9167       \@stopfield
9168       \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9169       \@contfield
9170     \fi
9171   \fi
9172   \ifpoem@started\newpoem@tabcr\fi}%
9173 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9174 \global\poem@startedfalse
9175 \csname poem@obeylines\endcsname
9176 \let\poem@obeylines\relax
9177 \begin{tabbing}%
9178 }
9179 \def\@endmodernpoem{%
9180 \global\poem@startedfalse
9181 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9182   \@stopfield
9183   \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9184   \@contfield
9185 \fi
9186 \ifpoem@started\else\let\@stopline\@stopfield\fi
9187 \end{tabbing}%
9188 \endgroup
9189 \par
9190 \if@nparlist \else
9191   \ifdim\lastskip >\z@
9192     \@tempskipa\lastskip \vskip -\lastskip
9193     \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
9194     \vskip\@tempskipa
9195   \fi
9196   \@endparenv
9197 \fi
9198 }
9199 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9200 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mode
9201 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9202 \gdef\@startfield{%
9203 \global\setbox\@curfield\hbox\bgroup%
9204 \let\@footnotetext\bidipoem@p@ftntext%
9205 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9206 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9207 \let\@xfootnotenext\bidipoem@p@xftntext%
9208 \let\@xfootnote\bidipoem@p@xfootnote%
9209 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9210 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9211 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9212 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9213 \color@begingroup}
9214 \gdef\@stopfield{%
9215   \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
9216 \gdef\@contfield{%

```



```

9217 \global\setbox\@curfield\hbox\bgroup%
9218 \let\@footnotetext\bidipoem@p@ftntext%
9219 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9220 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9221 \let\@xfootnotenext\bidipoem@p@xftntext%
9222 \let\@xfootnote\bidipoem@p@xfootnote%
9223 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9224 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9225 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9226 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9227 \color@begingroup\unhbox\@curfield}

```

## 62 File boek3-xetex-bidi.def

```

9228 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for XeT
9229 \renewenvironment{theindex}{%
9230   \if@twocolumn
9231     \@restonecolfalse
9232   \else
9233     \@restonecoltrue
9234   \fi
9235   \columnseprule \z@
9236   \columnsep 35\p@
9237   \twocolumn[\@makeschapterhead{\indexname}]%
9238   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9239   \thispagestyle{plain}\parindent\z@
9240   \parskip\z@ \@plus .3\p@\relax
9241   \let\item\@idxitem
9242 }{%
9243   \if@restonecol\onecolumn\else\clearpage\fi}
9244 \renewcommand*\head@style{%
9245   \interlinepenalty \@M
9246   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9247   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9248 \renewcommand*\@regtocline[3]{%
9249   \ifnum #1>\c@tocdepth
9250   \else
9251     \vskip\z@\@plus.2\p@
9252     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9253     \if@RTL\rightskip\else\leftskip\fi\unitindent
9254     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9255     \parfillskip\z@
9256     \@tempdima\unitindent
9257     \parindent\z@
9258     \leavevmode
9259     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9260     \hskip 1em \nobreak{\slshape #3}\par
9261   }%
9262   \fi}
9263 \if@oldtoc
9264 \renewcommand*\l@part[2]{%
9265   \ifnum \c@tocdepth >-2\relax
9266     \addpenalty{-\@highpenalty}%
9267     \addvspace{2.25em \@plus\p@}%

```



```

9268 \begingroup
9269 \setlength\@tempdima{3em}%
9270 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9271 \parfillskip -\@pnumwidth
9272 {\leavevmode
9273 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9274 \nobreak
9275 \global\@nobreaktrue
9276 \everypar{\global\@nobreakfalse\everypar{}}%
9277 \endgroup
9278 \fi}
9279 \else
9280 \renewcommand*\l@part{%
9281 \ifnum \c@tocdepth >-2\relax
9282 \addpenalty{-\@highpenalty}%
9283 \addvspace{2.25em \@plus \p@}%
9284 \@regtocline{0}%
9285 \fi}
9286 \fi
9287 \if@oldtoc
9288 \renewcommand*\l@chapter[2]{%
9289 \addpenalty{-\@highpenalty}%
9290 \vskip 1.0em \@plus \p@
9291 \setlength\@tempdima{1.5em}%
9292 \begingroup
9293 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9294 \parfillskip -\@pnumwidth
9295 \leavevmode \bfseries
9296 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9297 \hskip -\if@RTL\rightskip\else\leftskip\fi
9298 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9299 \penalty\@highpenalty
9300 \endgroup}
9301 \else
9302 \renewcommand*\l@chapter{\@regtocline{0}}
9303 \fi
9304 \renewenvironment{abstract}{%
9305 \titlepage
9306 \null\vfil
9307 \section*\SectFont \abstractname}
9308 \noindent\ignorespaces}
9309 {\par\vfil\null\endtitlepage}
9310 \renewenvironment{thebibliography}[1]
9311 {\chapter*\bibname}%
9312 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9313 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9314 \bidi@thebibliography@font@hook%
9315 \list{\@biblabel{\@arabic\c@enumiv}}%
9316 {\settowidth\labelwidth{\@biblabel{#1}}%
9317 \leftmargin\labelwidth
9318 \advance\leftmargin\labelsep
9319 \@openbib@code
9320 \usecounter{enumiv}%
9321 \let\p@enumiv\@empty

```



```

9322         \renewcommand*\theenumiv{\@arabic\c@enumiv}}}%
9323         \sloppy\clubpenalty4000\widowpenalty4000%
9324         \sfcode`\.\@m}
9325     {\def\@noitemerr
9326       {\@latex@warning{Empty `thebibliography' environment}}}%
9327     \endlist}
9328 \renewcommand*\left@footnoterule{%
9329   \kern-3\p@
9330   \kern.5\baselineskip
9331   \hrule\@width\unitindent
9332   \kern.4\baselineskip
9333 }
9334 \renewcommand*\right@footnoterule{%
9335   \kern-3\p@
9336   \kern.5\baselineskip
9337   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9338   \kern.4\baselineskip}
9339 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9340 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9341 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9342 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9343 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9344 \renewcommand*\theequation{%
9345   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9346 \renewcommand*\thefigure{%
9347   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
9348 \renewcommand*\thetable{%
9349   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
9350 \renewcommand*\maketitle{%
9351   \begin{titlepage}%
9352     \let\footnotesize\small
9353     \let\right@footnoterule\relax
9354     \let\left@footnoterule\relax
9355     \let\textwidth\footnoterule\relax
9356     \let \footnote \thanks
9357     \long\def\@makefnmark##1{\parindent\z@
9358       \def\labelitemi{\textendash}\@revlabeltrue
9359       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9360     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9361     \if@compatibility\setcounter{page}{0}\fi
9362     \null\vfil
9363     \vskip 60\p@
9364     \begin{center}%
9365       \TitleFont
9366       {\LARGE \def\\{\penalty -\@M}
9367         \if@allcaps
9368           \expandafter\uc@nothanks\@title\thanks\relax
9369         \else
9370           \@title
9371         \fi\par}%
9372     \vskip 3em%
9373     {\large
9374       \lineskip .75em \parindent\z@
9375       \begin{tabular}[t]{c}%

```



```

9376         \if@allcaps
9377             \expandafter\uc@authornothanks\@author\and\relax
9378         \else
9379             \@author
9380         \fi
9381     \end{tabular}\par}%
9382     \vskip 1.5em%
9383     {\large
9384         \if@allcaps
9385             \uppercase\expandafter{\@date}%
9386         \else
9387             \@date
9388         \fi\par}%
9389     \end{center}\par
9390     \@thanks
9391     \vfil\null
9392 \end{titlepage}%
9393 \setcounter{footnote}{0}%
9394 \global\let\thanks\relax
9395 \global\let\maketitle\relax
9396 \global\let\@thanks\@empty
9397 \global\let\@author\@empty
9398 \global\let\@title\@empty
9399 \global\let\@date\@empty
9400 \global\let\title\relax
9401 \global\let\author\relax
9402 \global\let\date\relax
9403 \global\let\and\relax
9404 }

```

## 63 File boek-xetex-bidi.def

```

9405 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
9406 \renewenvironment{theindex}{%
9407     \if@twocolumn
9408         \@restonecolfalse
9409     \else
9410         \@restonecoltrue
9411     \fi
9412     \columnseprule \z@
9413     \columnsep 35\p@
9414     \twocolumn[\@makeschapterhead{\indexname}]%
9415     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9416     \thispagestyle{plain}\parindent\z@
9417     \parskip\z@ \@plus .3\p@\relax
9418     \let\item\@idxitem
9419 }{%
9420     \if@restonecol\onecolumn\else\clearpage\fi}
9421 \renewcommand*\head@style{%
9422     \interlinepenalty \@M
9423     \hyphenpenalty=\@M \exhyphenpenalty=\@M
9424     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9425 \renewcommand*\@regtocline[3]{%
9426     \ifnum #1>\c@tocdepth

```



```

9427 \else
9428 \vskip\z@\@plus.2\p@
9429 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9430 \if@RTL\righskip\else\leftskip\fi\unitindent
9431 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
9432 \parfillskip\z@
9433 \@tempdima\unitindent
9434 \parindent\z@
9435 \leavevmode
9436 \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
9437 \hskip 1em \nobreak{\slshape #3}\par
9438 }%
9439 \fi}
9440 \if@oldtoc
9441 \renewcommand*\l@part[2]{%
9442 \ifnum \c@tocdepth >-2\relax
9443 \addpenalty{-\@highpenalty}%
9444 \addvspace{2.25em \@plus\p@}%
9445 \begingroup
9446 \setlength\@tempdima{3em}%
9447 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
9448 \parfillskip -\@pnumwidth
9449 {\leavevmode
9450 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9451 \nobreak
9452 \global\@nobreaktrue
9453 \everypar{\global\@nobreakfalse\everypar{}}%
9454 \endgroup
9455 \fi}
9456 \else
9457 \renewcommand*\l@part{%
9458 \ifnum \c@tocdepth >-2\relax
9459 \addpenalty{-\@highpenalty}%
9460 \addvspace{2.25em \@plus \p@}%
9461 \@regtocline{0}%
9462 \fi}
9463 \fi
9464 \if@oldtoc
9465 \renewcommand*\l@chapter[2]{%
9466 \addpenalty{-\@highpenalty}%
9467 \vskip 1.0em \@plus\p@
9468 \setlength\@tempdima{1.5em}%
9469 \begingroup
9470 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
9471 \parfillskip -\@pnumwidth
9472 \leavevmode \bfseries
9473 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
9474 \hskip -\if@RTL\righskip\else\leftskip\fi
9475 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9476 \penalty\@highpenalty
9477 \endgroup}
9478 \else
9479 \renewcommand*\l@chapter{\@regtocline{0}}
9480 \fi

```





```

9481 \renewcommand*\left@footnoterule{%
9482   \kern-3\p@
9483   \kern.5\baselineskip
9484   \hrule\@width\unitindent
9485   \kern.4\baselineskip
9486 }
9487 \renewcommand*\right@footnoterule{%
9488   \kern-3\p@
9489   \kern.5\baselineskip
9490   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9491   \kern.4\baselineskip}
9492 \renewenvironment{abstract}{%
9493   \titlepage
9494   \null\vfil
9495   \section*{\SectFont \abstractname}
9496   \noindent\ignorespaces}
9497   {\par\vfil\null\endtitlepage}
9498 \renewenvironment{thebibliography}[1]
9499   {\chapter*{\bibname}%
9500    \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9501    \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9502    \bidi@thebibliography@font@hook%
9503    \list{\@biblabel{\@arabic\c@enumiv}}{%
9504      {\settowidth\labelwidth{\@biblabel{#1}}%
9505       \leftmargin\labelwidth
9506       \advance\leftmargin\labelsep
9507       \@openbib@code
9508       \usecounter{enumiv}%
9509       \let\p@enumiv\@empty
9510       \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9511     \sloppy\clubpenalty4000\widowpenalty4000%
9512     \sfcode\.\@m}
9513   {\def\@noitemerr
9514     {\@latex@warning{Empty `thebibliography' environment}}}%
9515   \endlist}
9516 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9517 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9518 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9519 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9520 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9521 \renewcommand*\theequation{%
9522   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9523 \renewcommand*\thefigure{%
9524   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9525 \renewcommand*\thetable{%
9526   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9527 \renewcommand*\maketitle{%
9528   \begin{titlepage}%
9529     \let\footnotesize\small
9530     \let\right@footnoterule\relax
9531     \let\left@footnoterule\relax
9532     \let\textwidth\footnoterule\relax
9533     \let \footnote \thanks
9534     \long\def\@makefntext##1{\parindent\z@

```



```

9535         \def\labelitemi{\textendash}\@revlabeltrue
9536         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9537 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9538 \if@compatibility\setcounter{page}{0}\fi
9539 \null\vfil
9540 \vskip 60\p@
9541 \begin{center}%
9542   \TitleFont
9543   {\LARGE \def\\{\penalty -\@M}
9544     \if@allcaps
9545       \expandafter\uc@nothanks\@title\thanks\relax
9546     \else
9547       \@title
9548     \fi\par}%
9549 \vskip 3em%
9550 {\large
9551   \lineskip .75em \parindent\z@
9552   \begin{tabular}[t]{c}%
9553     \if@allcaps
9554       \expandafter\uc@authornothanks\@author\and\relax
9555     \else
9556       \@author
9557     \fi
9558   \end{tabular}\par}%
9559 \vskip 1.5em%
9560 {\large
9561   \if@allcaps
9562     \uppercase\expandafter{\@date}%
9563   \else
9564     \@date
9565   \fi\par}%
9566 \end{center}\par
9567 \@thanks
9568 \vfil\null
9569 \end{titlepage}%
9570 \setcounter{footnote}{0}%
9571 \global\let\thanks\relax
9572 \global\let\maketitle\relax
9573 \global\let\@thanks\@empty
9574 \global\let\@author\@empty
9575 \global\let\@title\@empty
9576 \global\let\@date\@empty
9577 \global\let\title\relax
9578 \global\let\author\relax
9579 \global\let\date\relax
9580 \global\let\and\relax
9581 }

```

## 64 File `bookest-xetex-bidi.def`

```

9582 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
9583 \def\@makechapterhead#1{%
9584   \vspace*{20\p@}
9585   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont

```



```

9586 \ifnum \c@secnumdepth >\m@ne
9587 \if@mainmatter
9588 {\colorA\huge\scshape \@chapapp\space \thechapter}
9589 \par\nobreak
9590 \vskip 10\p@
9591 \fi
9592 \fi
9593 \interlinepenalty\@M
9594 {\colorB\hrule}
9595 \vskip 15\p@
9596 \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9597 {\colorA\Huge \bfseries #1}\par\nobreak
9598 \if@RTL\end{flushleft}\else\end{flushright}\fi
9599 \vskip 5\p@
9600 {\colorB\hrule}
9601 \vskip 30\p@
9602 }}
9603 \def\@makeschapterhead#1{%
9604 \vspace*{20\p@}
9605 {\parindent \z@ \raggedright \normalfont
9606 {\colorB\hrule}
9607 \vskip 15\p@
9608 \begin{center}
9609 {\colorA\Huge \bfseries #1}\par\nobreak
9610 \end{center}
9611 \vskip 5\p@
9612 {\colorB\hrule}
9613 \vskip 30\p@
9614 }}

```

## 65 File book-xetex-bidi.def

```

9615 \ProvidesFile{book-xetex-bidi.def}[2025/09/04 v1.3 bidi adaptations for standard book class]
9616 \renewenvironment{theindex}
9617 {\if@twocolumn
9618 \@restonecolfalse
9619 \else
9620 \@restonecoltrue
9621 \fi
9622 \columnseprule \z@
9623 \columnsep 35\p@
9624 \twocolumn[\@makeschapterhead{\indexname}]%
9625 \@mkboth{\MakeUppercase\indexname}%
9626 {\MakeUppercase\indexname}%
9627 \thispagestyle{plain}\parindent\z@
9628 \parskip\z@ \@plus .3\p@\relax
9629 \let\item\@idxitem}
9630 {\if@restonecol\onecolumn\else\clearpage\fi}
9631 \IfClassLoadedF{bookest}{%
9632 \if@titlepage
9633 \renewcommand\maketitle{\begin{titlepage}%
9634 \let\footnotesize\small
9635 \let\right@footnoterule\relax
9636 \let\left@footnoterule\relax

```



```

9637 \let\textwidth@footnoterule\relax
9638 \let \footnote \thanks
9639 \let \LTRfootnote \LTRthanks
9640 \let \RTLfootnote \RTLthanks
9641 \null\vfil
9642 \vskip 60\p@
9643 \begin{center}%
9644   {\LARGE \@title \par}%
9645   \vskip 3em%
9646   {\large
9647     \lineskip .75em%
9648     \begin{tabular}[t]{c}%
9649       \@author
9650     \end{tabular}\par}%
9651     \vskip 1.5em%
9652     {\large \@date \par}%           % Set date in \large size.
9653 \end{center}\par
9654 \@thanks
9655 \vfil\null
9656 \end{titlepage}%
9657 \setcounter{footnote}{0}%
9658 \global\let\thanks\relax
9659 \global\let\LTRthanks\relax
9660 \global\let\RTLthanks\relax
9661 \global\let\maketitle\relax
9662 \global\let\@thanks\@empty
9663 \global\let\@author\@empty
9664 \global\let\@date\@empty
9665 \global\let\@title\@empty
9666 \global\let\title\relax
9667 \global\let\author\relax
9668 \global\let\date\relax
9669 \global\let\and\relax
9670 }
9671 \else
9672 \renewcommand\maketitle{\par
9673   \begingroup
9674     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9675     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9676     \long\def\@makefntext#1{\parindent 1em\noindent
9677       \hb@xt@1.8em{%
9678         \hss\@textsuperscript{\normalfont\@thefnmark}}\##1}%
9679     \if@twocolumn
9680       \ifnum \col@number=\@ne
9681         \@maketitle
9682       \else
9683         \twocolumn[\@maketitle]%
9684       \fi
9685     \else
9686       \newpage
9687       \global\@topnum\z@ % Prevents figures from going at top of page.
9688       \@maketitle
9689     \fi
9690     \thispagestyle{plain}\@thanks

```



```

9691 \endgroup
9692 \setcounter{footnote}{0}%
9693 \global\let\thanks\relax
9694 \global\let\LTRthanks\relax
9695 \global\let\RTLthanks\relax
9696 \global\let\maketitle\relax
9697 \global\let\@maketitle\relax
9698 \global\let\@thanks\@empty
9699 \global\let\@author\@empty
9700 \global\let\@date\@empty
9701 \global\let\@title\@empty
9702 \global\let\title\relax
9703 \global\let\author\relax
9704 \global\let\date\relax
9705 \global\let\and\relax
9706 }
9707 \def\@maketitle{%
9708 \newpage
9709 \null
9710 \vskip 2em%
9711 \begin{center}%
9712 \let \footnote \thanks
9713 \let \LTRfootnote \LTRthanks
9714 \let \RTLfootnote \RTLthanks
9715 {\LARGE \@title \par}%
9716 \vskip 1.5em%
9717 {\large
9718 \lineskip .5em%
9719 \begin{tabular}[t]{c}%
9720 \@author
9721 \end{tabular}\par}%
9722 \vskip 1em%
9723 {\large \@date}%
9724 \end{center}%
9725 \par
9726 \vskip 1.5em}
9727 \fi}
9728 \IfPackageLoadedF{tocloft}{%
9729 \renewcommand*\l@part[2]{%
9730 \ifnum \c@tocdepth >-2\relax
9731 \addpenalty{-\@highpenalty}%
9732 \addvspace{2.25em \@plus\p}%
9733 \setlength\@tempdima{3em}%
9734 \begin{group
9735 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9736 \parfillskip -\@pnumwidth
9737 {\leavevmode
9738 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9739 \nobreak
9740 \global\@nobreaktrue
9741 \everypar{\global\@nobreakfalse\everypar{}}%
9742 \end{group
9743 \fi}
9744 \renewcommand*\l@chapter[2]{%

```



```

9745 \ifnum \c@tocdepth >\m@ne
9746 \addpenalty{-\@highpenalty}%
9747 \vskip 1.0em \@plus\p@
9748 \setlength\@tempdima{1.5em}%
9749 \begingroup
9750 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9751 \parfillskip -\@pnumwidth
9752 \leavevmode \bfseries
9753 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9754 \hskip -\if@RTL\rightskip\else\leftskip\fi
9755 #1\nobreak\hfil \nobreak\hbext@\@pnumwidth{\hss #2}\par
9756 \penalty\@highpenalty
9757 \endgroup
9758 \fi}
9759 }
9760 \renewcommand\left@footnoterule{%
9761 \kern-3\p@
9762 \hrule\@width.4\columnwidth
9763 \kern2.6\p@}
9764 \renewcommand\right@footnoterule{%
9765 \kern-3\p@
9766 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9767 \kern2.6\p@}
9768 \renewcommand\theequation
9769 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9770 \renewcommand \thefigure
9771 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9772 \renewcommand \thetable
9773 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9774 \renewcommand \thechapter {\@arabic\c@chapter}
9775 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9776 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9777 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9778 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9779 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9780 \def\@makechapterhead#1{%
9781 \vspace*{50\p@}%
9782 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9783 \ifnum \c@secnumdepth >\m@ne
9784 \if@mainmatter
9785 \huge\bfseries \@chapapp\space \thechapter
9786 \par\nobreak
9787 \vskip 20\p@
9788 \fi
9789 \fi
9790 \interlinepenalty\@M
9791 \Huge \bfseries #1\par\nobreak
9792 \vskip 40\p@
9793 }}
9794 \def\@makeschapterhead#1{%
9795 \vspace*{50\p@}%
9796 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9797 \normalfont
9798 \interlinepenalty\@M

```



```

9799 \Huge \bfseries #1\par\nobreak
9800 \vskip 40\p@
9801 }}
9802 \renewcommand\backmatter{%
9803 \if@openright
9804 \cleardoublepage
9805 \else
9806 \clearpage
9807 \fi
9808 \@mainmatterfalse}
9809 \IfPackageLoadedF{natbib}{%
9810 \renewenvironment{thebibliography}[1]
9811 {\chapter*{\bibname}%
9812 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9813 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9814 \bidi@thebibliography@font@hook%
9815 \list{\@biblabel{\@arabic\c@enumiv}}%
9816 {\settowidth\labelwidth{\@biblabel{#1}}%
9817 \leftmargin\labelwidth
9818 \advance\leftmargin\labelsep
9819 \@openbib@code
9820 \usecounter{enumiv}%
9821 \let\p@enumiv\@empty
9822 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9823 \sloppy
9824 \clubpenalty4000
9825 \@clubpenalty \clubpenalty
9826 \widowpenalty4000%
9827 \sfcode\.\@m}
9828 {\def\@noitemerr
9829 {\@latex@warning{Empty `thebibliography' environment}}}%
9830 \endlist}
9831 }

```

## 66 File breqn-xetex-bidi.def

```

9832 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
9833 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
9834 \everydisplay\expandafter{\the\everydisplay \display@setup}%
9835 \if@noskipsec \leavevmode \fi
9836 \if@inlabel \leavevmode \global\@inlabelfalse \fi
9837 \if\eq@group\else\eq@prelim\fi
9838 \setkeys{breqn}{#1}%
9839 \the\eqstyle
9840 \eq@setnumber
9841 \begingroup
9842 \eq@setup@a
9843 \eq@startup
9844 }
9845 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
9846 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9847 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9848 \global\let\GRP@label\@empty
9849 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@

```



```

9850 \global\grp@linewidth\z@\global\grp@wdNum\z@
9851 \global\let\grp@eqs@numbered@False
9852 \global\let\grp@aligned@True
9853 \global\let\grp@shiftnumber@False
9854 \eq@prelim
9855 \setkeys{breqn}{#1}%
9856 \if\grp@hasNumber \grp@setnumber \fi
9857 }
9858 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
9859 \let\display@setup\dseries@display@setup
9860 % Question: should this be the default for dseries???
9861 \global\eq@wdCond\z@
9862 \@dmath[layout={M},#1]%
9863 \mathsurround\z@\@math \penalty\@Mi
9864 \let\endmath\ends@math
9865 \def\premath{%
9866 \ifdim\lastskip<.3em \unskip
9867 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9868 }%
9869 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9870 \ignorespaces
9871 }
9872 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9873 \renewenvironment{dsuspend}{%
9874 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9875 \parshape 1 \displayindent \displaywidth\relax
9876 \hsize=\columnwidth \noindent\ignorespaces
9877 }{%
9878 \par\egroup
9879 \global\setbox\GRP@box\vbox{%
9880 \hbox{\copy\EQ@box\vtop{\unvbox\EQ@box}}%
9881 \unvbox\GRP@box
9882 }%
9883 \global\GRP@queue\@xp{\the\GRP@queue
9884 \elt{\let\eq@isIntertext@True}%
9885 }%
9886 }

```

## 67 File cals-xetex-bidi.def

```

9887 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeTeX]
9888 \renewcommand\cals@setup@alignment[1]{%
9889 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9890 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9891 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9892 }
9893 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9894 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9895 \if@RTLtab\cals@activate@rtl\fi
9896 \let\cals@thead@tokens=\relax
9897 \let\cals@tfoot@tokens=\relax
9898 \let\cals@tbody@tokens=\relax
9899 \cals@tfoot@height=0pt \relax
9900 \let\cals@last@context=n%

```





```

9901 \let\cals@current@context=b%
9902 \parindent=0pt \relax%
9903 \cals@setup@alignment{#1}%
9904 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsz%
9905 %% Alignment inside is independent on center/flushright outside
9906 \parfillskip=0pt plus1fil\relax
9907 \let\cals@borderL=\relax
9908 \let\cals@borderR=\relax
9909 \let\cals@borderT=\relax
9910 \let\cals@borderB=\relax
9911 \setbox\cals@backup@row=\box\voidb@x\relax
9912 \cals@AtBeginTable
9913 }{% End of the table
9914 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9915 \renewcommand\alignL{%
9916 \if@RTLtab
9917   \cals@vfillAdd\cals@paddingL
9918 \else
9919   \cals@vfillDrop\cals@paddingL
9920 \fi
9921 \cals@vfillDrop\cals@paddingR}
9922 \renewcommand\alignR{%
9923 \if@RTLtab
9924   \cals@vfillDrop\cals@paddingL
9925 \else
9926   \cals@vfillAdd\cals@paddingL
9927 \fi
9928 \cals@vfillDrop\cals@paddingR}

```

## 68 File caption-xetex-bidi.def

```

9929 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package]
9930 \let\@makecaption\caption@makecaption

```

## 69 File caption3-xetex-bidi.def

```

9931 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package]
9932 \renewcommand*\caption@par{%
9933   \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

## 70 File colortbl-xetex-bidi.def

```

9934 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package]
9935 \def\CT@setup{%
9936   \@tempdimb\col@sep
9937   \@tempdimc\col@sep
9938   \def\CT@color{%
9939     \global\let\CT@do@color\CT@@do@color
9940     \bidicolor}}
9941 \def\@classz{\@classx
9942   \@tempcnta \count@
9943   \prepnext@tok
9944 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9945   \@addtopreamble{\if@RTLtab\beginL\fi%

```



```

9946 \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9947 \ifcase \@chnum
9948 \hskip\stretch{.5}\kern\z@
9949 \d@llarbegin
9950 \insert@column
9951 \d@llarend\hskip\stretch{.5}\or
9952 \d@llarbegin \insert@column \d@llarend \hfill \or
9953 \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
9954 $\vcenter
9955 \@startpbox{\@nextchar}\insert@column \@endpbox $\or
9956 \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9957 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
9958 \fi
9959 \if@RTLtab\endR\fi\egroup\egroup
9960 \begingroup
9961 \CT@setup
9962 \CT@column@color
9963 \CT@row@color
9964 \CT@cell@color
9965 \CT@do@color
9966 \endgroup
9967 \@tempdima\ht\z@
9968 \advance\@tempdima\minrowclearance
9969 \vrule\@height\@tempdima\@width\z@
9970 \unhbox\z@\if@RTLtab\endL\fi}%
9971 \prepnext@tok}

```

## 71 File color-xetex-bidi.def

```

9972 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for Xe
9973 \long\def\color@b@x#1#2#3{%
9974 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
9975 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
9976 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
9977 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
9978 {#1{#2\color@block{wd\z@}{ht\z@}{dp\z@}}%
9979 \box\z@}\ifmmode\else\if@RTL\endL\fi\fi}
9980 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
9981 \DeclareRobustCommand\color{%
9982 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi@ifnextchar[\@undeclaredcolor\@declaredcolor}%
9983 \def\@declaredcolor#1{%
9984 \@ifundefined{\string\color @#1}%
9985 {\c@lor@error{`#1'}}%
9986 {\expandafter\let\expandafter\current@color
9987 \csname\string\color @#1\endcsname
9988 \set@color}%
9989 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9990 \def\@undeclaredcolor[#1]#2{%
9991 \@ifundefined{color@#1}%
9992 {\c@lor@error{model `#1'}}%
9993 {\csname color@#1\endcsname\current@color{#2}%
9994 \set@color}%
9995 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9996 \DeclareRobustCommand\bidicolor{%

```



```

9997 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
9998 \def\@bidiundeclaredcolor[#1]#2{%
9999 \@ifundefined{color@#1}%
10000 {\c@lor@error{model `#1'}}%
10001 {\csname color@#1\endcsname\current@color{#2}%
10002 \set@color}%
10003 \ignorespaces}
10004 \def\@bidideclaredcolor#1{%
10005 \@ifundefined{\string\color @#1}%
10006 {\c@lor@error{`#1'}}%
10007 {\expandafter\let\expandafter\current@color
10008 \csname\string\color @#1\endcsname
10009 \set@color}%
10010 \ignorespaces}
10011 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
10012 \def\color@fbbox#1#2#3{%
10013 \color@b@x{\fbboxsep\z@\bidicolor#1{#2}\fbbox}{\bidicolor#1{#3}}}
10014 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 72 File combine-xetex-bidi.def

```

10015 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
10016 \renewcommand{\c@ll@chapsecii}[2]{%
10017 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
10018 \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
10019 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
10020 }
10021 \renewcommand{\c@ll@chapseci}{%
10022 \setlength\@tempdima{0em}%
10023 \begingroup
10024 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10025 \parfillskip -\@pnumwidth
10026 \leavevmode
10027 }
10028 \renewenvironment{tocindent}[1]{%
10029 \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

## 73 File crop-xetex-bidi.def

```

10030 \ProvidesFile{crop-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for crop package for XeT
10031 \IfClassLoadedT{memoir}{\endinput}
10032 \RequirePackage{graphicx}
10033 \renewcommand*{\CROP@ulc}{%
10034 \if@RTLmain%
10035 \begin{picture}(0,0)
10036 \unitlength\p@\thinline
10037 \put(-40,0){\circle{10}}
10038 \put(-30,-5){\line(0,1){10}}
10039 \put(-35,0){\line(1,0){30}}
10040 \put(-10,30){\circle{10}}
10041 \put(-5,30){\line(1,0){10}}
10042 \put(0,35){\line(0,-1){30}}
10043 \end{picture}%
10044 \else%

```



```

10045 \begin{picture}(0,0)
10046 \unitlength\p@\thinlines
10047 \put(-30,0){\circle{10}}
10048 \put(-30,-5){\line(0,1){10}}
10049 \put(-35,0){\line(1,0){30}}
10050 \put(0,30){\circle{10}}
10051 \put(-5,30){\line(1,0){10}}
10052 \put(0,35){\line(0,-1){30}}
10053 \end{picture}%
10054 \fi%
10055 }
10056 \renewcommand*\CROP@urc{%
10057 \if@RTLmain%
10058 \begin{picture}(0,0)
10059 \unitlength\p@\thinlines
10060 \put(20,0){\circle{10}}
10061 \put(30,-5){\line(0,1){10}}
10062 \put(35,0){\line(-1,0){30}}
10063 \put(-10,30){\circle{10}}
10064 \put(-5,30){\line(1,0){10}}
10065 \put(0,35){\line(0,-1){30}}
10066 \end{picture}%
10067 \else%
10068 \begin{picture}(0,0)
10069 \unitlength\p@\thinlines
10070 \put(30,0){\circle{10}}
10071 \put(30,-5){\line(0,1){10}}
10072 \put(35,0){\line(-1,0){30}}
10073 \put(0,30){\circle{10}}
10074 \put(-5,30){\line(1,0){10}}
10075 \put(0,35){\line(0,-1){30}}
10076 \end{picture}%
10077 \fi%
10078 }
10079 \renewcommand*\CROP@llc{%
10080 \if@RTLmain%
10081 \begin{picture}(0,0)
10082 \unitlength\p@\thinlines
10083 \put(-40,0){\circle{10}}
10084 \put(-30,-5){\line(0,1){10}}
10085 \put(-35,0){\line(1,0){30}}
10086 \put(-10,-30){\circle{10}}
10087 \put(-5,-30){\line(1,0){10}}
10088 \put(0,-35){\line(0,1){30}}
10089 \end{picture}%
10090 \else%
10091 \begin{picture}(0,0)
10092 \unitlength\p@\thinlines
10093 \put(-30,0){\circle{10}}
10094 \put(-30,-5){\line(0,1){10}}
10095 \put(-35,0){\line(1,0){30}}
10096 \put(0,-30){\circle{10}}
10097 \put(-5,-30){\line(1,0){10}}
10098 \put(0,-35){\line(0,1){30}}

```



```

10099 \end{picture}%
10100 \fi%
10101 }
10102 \renewcommand*\CROP@lrc{%
10103 \if@RTLmain%
10104 \begin{picture}(0,0)
10105 \unitlength\p@\thinline
10106 \put(20,0){\circle{10}}
10107 \put(30,-5){\line(0,1){10}}
10108 \put(35,0){\line(-1,0){30}}
10109 \put(-10,-30){\circle{10}}
10110 \put(-5,-30){\line(1,0){10}}
10111 \put(0,-35){\line(0,1){30}}
10112 \end{picture}%
10113 \else%
10114 \begin{picture}(0,0)
10115 \unitlength\p@\thinline
10116 \put(30,0){\circle{10}}
10117 \put(30,-5){\line(0,1){10}}
10118 \put(35,0){\line(-1,0){30}}
10119 \put(0,-30){\circle{10}}
10120 \put(-5,-30){\line(1,0){10}}
10121 \put(0,-35){\line(0,1){30}}
10122 \end{picture}%
10123 \fi%
10124 }
10125 \ifpackagewith{crop}{cam}{%
10126 \CROP@except{cam}%
10127 }{}

```

## 74 File cutwin-xetex-bidi.def

```

10128 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10129 \renewcommand*\c@twcompctr}[2]{%
10130 \def\c@twfirst{1}
10131 \loop\advance\c@twinlines\m@ne
10132 \setbox\c@twslicea=\vsplit#1 to\baselineskip
10133 \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10134 \c@twprune{\c@twslicea}{\c@twlftside}%
10135 \c@twprune{\c@twsliceb}{\c@twrtside}%
10136 \ifnum\c@twfirst=\@ne
10137 \setbox#2=\vbox{\unvbox#2\hbox
10138 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10139 \else
10140 \setbox#2=\vbox{\unvbox#2\hbox
10141 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box
10142 \fi
10143 \def\c@twfirst{2}
10144 \ifnum\c@twinlines>\z@\repeat}
10145 \renewcommand*\c@twcompoddctr}[2]{%
10146 \def\c@twrounds{1}
10147 \def\c@twfirst{1}
10148 \@for\c@twlspec:=\c@twb\do{%
10149 \ifnum\c@twrounds=1

```



```

10150     \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10151     \c@twprune{\c@twslicea}{\c@twlspec}%
10152     \def\c@twrounds{2}
10153   \else
10154     \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10155     \c@twprune{\c@twsliceb}{\c@twlspec}%
10156     \ifnum\c@twfirst=1
10157       \setbox#2=\vbox{\unvbox#2\hbox
10158         to\hsize{\ifRTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\ifRTL\
10159       \def\c@twfirst{2}
10160     \else
10161       \setbox#2=\vbox{\unvbox#2\hbox
10162         to\hsize{\ifRTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\ifRTL\box\c@twslicea\el
10163     \fi
10164     \def\c@twrounds{1}
10165   \fi}}

```

## 75 File cuted-xetex-bidi.def

```

10166 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for X
10167
10168 \def\RTL@outputdblcol{%
10169   \if@firstcolumn
10170     \global\@firstcolumnfalse
10171     \global\setbox\@leftcolumn\copy\@outputbox
10172     \splitmaxdepth\maxdimen
10173     \vbadness\maxdimen
10174     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10175     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10176     \toks@\expandafter{\topmark}%
10177     \xdef\@firstcoltopmark{\the\toks@}%
10178     \toks@\expandafter{\splitfirstmark}%
10179     \xdef\@firstcolfirstmark{\the\toks@}%
10180     \ifx\@firstcolfirstmark\@empty
10181       \global\let\@setmarks\relax
10182     \else
10183       \gdef\@setmarks{%
10184         \let\firstmark\@firstcolfirstmark
10185         \let\topmark\@firstcoltopmark}%
10186     \fi
10187   \else
10188     \global\@firstcolumntrue
10189     \setbox\@outputbox\vbox{%
10190       \hb@xt@\textwidth{%
10191         \hskip \columnwidth
10192         \hfil
10193         {\normalcolor\vrule \@width\columnseprule}%
10194         \hfil
10195         \hb@xt@\columnwidth{%
10196           \bidi@firstcolumn@status@write%
10197           \box\@leftcolumn \hss}%
10198         \hskip -\textwidth
10199         \hb@xt@\columnwidth{%
10200           \bidi@lastcolumn@status@write%

```



```

10201      \box\@outputbox \hss}%
10202      \hskip \columnsep
10203      \hskip \columnwidth }}%
10204      \ifvoid\hold@viper
10205      \else
10206      \setbox\@outputbox \vbox to\textheight{%
10207          \box\hold@viper
10208          \box\@outputbox
10209          \vss
10210      }%
10211      \fi
10212      \@combinedblfloats
10213      \@setmarks
10214      \@outputpage
10215      \begingroup
10216      \@dblfloatplacement
10217      \@startdblcolumn
10218      \@whiles\if@fcolmade \fi{\@outputpage
10219      \@startdblcolumn}%
10220      \ifvoid\@viper
10221      \else
10222      \global\setbox\@viper\vbox{%
10223          \vskip-\stripsep
10224          \unvbox\@viper
10225      }%
10226      \@viperoutput
10227      \fi
10228      \endgroup
10229      \fi}%
10230
10231      \def\LTR@outputdblcol{%
10232      \if@firstcolumn
10233      \global\@firstcolumnfalse
10234      \global\setbox\@leftcolumn\copy\@outputbox
10235      \splitmaxdepth\maxdimen
10236      \vbadness\maxdimen
10237      \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10238      \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10239      \toks@\expandafter{\topmark}%
10240      \xdef\@firstcoltopmark{\the\toks@}%
10241      \toks@\expandafter{\splitfirstmark}%
10242      \xdef\@firstcolfirstmark{\the\toks@}%
10243      \ifx\@firstcolfirstmark\@empty
10244      \global\let\@setmarks\relax
10245      \else
10246      \gdef\@setmarks{%
10247          \let\firstmark\@firstcolfirstmark
10248          \let\topmark\@firstcoltopmark}%
10249      \fi
10250      \else
10251      \global\@firstcolumntrue
10252      \setbox\@outputbox\vbox{%
10253          \hb@xt@\textwidth{%
10254          \hb@xt@\columnwidth{%

```



```

10255      \bidi@firstcolumn@status@write%
10256      \box\@leftcolumn \hss}%
10257      \hfil
10258      {\normalcolor\vrule \@width\columnseprule}%
10259      \hfil
10260      \hb@xt@\columnwidth{%
10261      \bidi@lastcolumn@status@write%
10262      \box\@outputbox \hss}}}%
10263      \ifvoid\hold@viper
10264      \else
10265      \setbox\@outputbox \vbox to\textheight{%
10266      \box\hold@viper
10267      \box\@outputbox
10268      \vss
10269      }%
10270      \fi
10271      \@combinedblfloats
10272      \@setmarks
10273      \@outputpage
10274      \beginngroup
10275      \@dblfloatplacement
10276      \@startdblcolumn
10277      \@whiles\if@fcolmade \fi{\@outputpage
10278      \@startdblcolumn}%
10279      \ifvoid\@viper
10280      \else
10281      \global\setbox\@viper\vbox{%
10282      \vskip-\stripsep
10283      \unvbox\@viper
10284      }%
10285      \@viperoutput
10286      \fi
10287      \endgroup
10288      \fi}%
10289
10290      \def\@addviper{%
10291      \@insertfalse
10292      \def\var@@thecol@num{2}%
10293      \if@firstcolumn
10294      \def\var@@thecol@num{1}%
10295      \@reqcolroom=.5\@pageht
10296      \ht@viper=\@reqcolroom
10297      \advance\@reqcolroom by\ht\@viper
10298      \advance\@reqcolroom by\stripsep
10299      \else
10300      \@reqcolroom=\@colht
10301      \advance\@reqcolroom by\@pageht
10302      \ht@viper.5\@reqcolroom
10303      \@reqcolroom=\ht@viper
10304      \advance\@reqcolroom by\ht\@viper
10305      \advance\@reqcolroom by\stripsep
10306      \global\setbox\@holdpg\vbox{%
10307      \setbox\cuted@tempbox@a\vbox{%
10308      \aftergroup\unvbox

```





```

10309         \unvcopy\@leftcolumn
10310         \unskip\unkern\unpenalty
10311         \setbox\@tempboxa\lastbox
10312         \ifdim\dimexpr\ht\@tempboxa+\wd\@tempboxa+\dp\@tempboxa>\z@
10313             %% keeps lastbox
10314             \aftergroup\@leftcolumn
10315         \else
10316             %% removes lastbox
10317             \aftergroup\cuted@@tempbox@a
10318         \fi
10319     }%
10320     \unskip\unkern\unpenalty
10321     \on@stripcols@break
10322     \the\At@ViperColsBreak
10323     \unvbox\@holdpg
10324 }%
10325 \global\At@ViperColsBreak{}%
10326 \ht@viper=.5\ht\@holdpg
10327 \ifdim\ht@viper>\@colht
10328     \ht@viper=\@colht
10329 \fi
10330 \fi
10331 %%
10332 %% calculations for breaking
10333 %%
10334 \ifvoid\hold@viper
10335     \ht@hold@viper=\z@
10336 \else
10337     \ht@hold@viper=\ht\hold@viper
10338 \fi
10339 \cuted@@tempdim@b\ht@viper
10340 \set@split@topskip@to\topskip
10341 \loop
10342     \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
10343     \setbox\cuted@@varbox@a\copy\@holdpg
10344     \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10345     %% set leftcolumn boxes
10346     \setbox\cuted@@tempbox@c\vbox{\unvbox\cuted@@tempbox@a}%
10347     \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10348     \xdef\var@@leftcolumn@badness{\the\badness}%
10349     %% set rightcolumn boxes
10350     \setbox\cuted@@varbox@c\vbox{\unvbox\cuted@@varbox@a}%
10351     \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10352     \xdef\var@@rightcolumn@badness{\the\badness}%
10353     %% analyzing split goodness
10354     \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10355     \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10356     \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10357     \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10358     \cuted@@wlog@debug{CUTED [----]}%
10359     ^^JLeft: \the\ht\cuted@@tempbox@c
10360     +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10361     ^^JRight: \the\ht\cuted@@varbox@c
10362     +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness

```



```

10363      ^^JSplit: \the\cuted@@tempdim@b
10364      ^^JExtra height: \the\cuted@@tempdim@spread
10365    }%
10366    \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10367      \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10368        \cuted@@tempdim@spread=\z@
10369      \fi
10370    \fi
10371    \ifdim\cuted@@tempdim@spread<\z@
10372      \if@left@column@spread
10373        \if@right@column@shrink
10374          \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10375            \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread
10376          \else
10377            \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
10378          \fi
10379          \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10380          \ifnum\badness<\cuted@@column@badness
10381            \cuted@@tempdim@b=\cuted@@tempdim@a
10382            \cuted@@tempdim@spread=\z@
10383          \fi
10384          \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on }
10385          \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c}
10386          \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on }
10387        \else
10388          \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
10389            \unvcopy\cuted@@tempbox@c
10390          }%
10391          \ifnum\badness<\cuted@@column@badness
10392            \@tempdimb=\ht\cuted@@varbox@c
10393            \cuted@@tempdim@spread=\z@
10394          \fi
10395          \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\hbox{}}
10396          \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
10397            \unvcopy\cuted@@varbox@c
10398          }%
10399          \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\hbox{}}
10400        \fi
10401      \else
10402        \if@right@column@shrink
10403          \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10404          \else
10405            \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10406            \cuted@@tempdim@spread=\z@
10407          \fi
10408        \fi
10409      \fi
10410    \else
10411      \ifdim\cuted@@tempdim@spread>\z@
10412        \ifdim\dimexpr\@tempdimb+p@\relax>\@colht
10413          \cuted@@tempdim@b=\@colht
10414          \cuted@@tempdim@spread=\z@
10415        \fi
10416      \fi

```



```

10417     \fi
10418     \ifdim\cuted@@tempdim@spread<\z@
10419         \advance\cuted@@tempdim@b 1\p@
10420     \repeat
10421     \wlog{CUTED [- LAST -]%
10422         ^^JExtra skip:\the\cuted@@tempdim@spread
10423         ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10424         ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10425         ^^JSplit:\saved@tempdimb
10426         ^^JOutput:\the\cuted@@tempdim@b
10427         ^^JPageshrink:\the\pageshrink
10428         ^^JPagestretch:\the\pagestretch
10429         ^^J@colht:\the\@colht
10430     }%
10431 %%
10432 %% final construction of the cuted page above strip
10433 %%
10434 \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10435 \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10436     \cuted@@tempdim@a=\dimexpr
10437         \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10438     \relax
10439     \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10440     \unvbox\cuted@@tempbox@c
10441     \ifdim\cuted@@tempdim@spread>\dp\strutbox
10442     \else
10443         \vskip-\cuted@@tempdim@spread
10444     \fi
10445     \prevdepth\z@
10446     \hrule\@height\cuted@@page@rule width\textwidth
10447     \vskip-\cuted@@page@rule
10448     \ifdim\cuted@@tempdim@a>\z@
10449         \if@left@column@spread
10450         \else
10451             \vss
10452         \fi
10453     \else
10454         \ifdim\cuted@@tempdim@a<\z@
10455             \if@left@column@shrink
10456             \else
10457                 \vss
10458             \fi
10459         \fi
10460     \fi
10461 }%
10462 \wlog{CUTED [output]: \the\cuted@@tempdim@b
10463     ^^JCUTED [leftcolumn badness]: \number\badness
10464 }%
10465 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10466     \cuted@@tempdim@a=\dimexpr
10467         \cuted@@tempdim@b-\ht\@holdpg
10468     \relax
10469     \unvbox\@holdpg
10470     \ifdim\cuted@@tempdim@a>\z@

```



```

10471         \if@right@column@spread
10472         \else
10473             \vss
10474         \fi
10475     \else
10476         \ifdim\cuted@@tempdim@a<\z@
10477             \if@right@column@shrink
10478             \else
10479                 \vss
10480             \fi
10481         \fi
10482     \fi
10483 }%
10484 \wlog{CUTED [rightcolumn badness]: \number\badness}%
10485 \setbox\cuted@@tempbox@var\vbox{%
10486     \hb@xt@\textwidth{%
10487         \if@RTLmain
10488             \hskip \columnwidth
10489             \hfil
10490             {\normalcolor\vrule \@width\columnseprule}%
10491             \hfil
10492             \hb@xt@\columnwidth{%
10493                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10494                 \hss
10495             }%
10496             \hskip -\textwidth
10497             \hb@xt@\columnwidth{%
10498                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10499                 \hss
10500             }%
10501             \hskip \columnsep
10502             \hskip \columnwidth
10503         \else
10504             \hb@xt@\columnwidth{%
10505                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10506                 \hss
10507             }%
10508             \hfil
10509             {\normalcolor\vrule \@width\columnseprule}%
10510             \hfil
10511             \hb@xt@\columnwidth{%
10512                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10513                 \hss
10514             }%
10515         \fi
10516     }%
10517 }%
10518 %%
10519 %% finalize cuted page
10520 %%
10521 \ifvoid\hold@viper
10522     \global\setbox\hold@viper\vbox{%
10523         \unvbox\cuted@@tempbox@var
10524         \penalty\interlinepenalty

```



```

10525         \vskip\stripsep
10526         \the\preCutedStrip
10527         \ifnum\outputpenalty<-\@Mii
10528             \vskip -\parskip
10529         \fi
10530         \outputpenalty\z@
10531     }%
10532 \else
10533     \global\setbox\hold@viper\vbox{%
10534         \unvbox\hold@viper
10535         \cuted@@tempbox@var
10536         \penalty\interlinepenalty
10537         \vskip\stripsep
10538         \the\preCutedStrip
10539         \ifnum\outputpenalty<-\@Mii
10540             \vskip -\parskip
10541         \fi
10542         \outputpenalty\z@
10543     }%
10544 \fi
10545 \ifdim\@colht>\@reqcolroom
10546     \global\setbox\hold@viper\vbox{%
10547         \unvbox\hold@viper
10548         \box\@viper
10549         \penalty\interlinepenalty
10550         \the\postCutedStrip
10551         \vskip\stripsep
10552         \ifnum\outputpenalty<-\@Mii
10553             \vskip -\parskip
10554         \fi
10555         \outputpenalty\z@
10556     }%
10557 \inserttrue
10558 \global\@firstcolumntrue
10559 \advance\ht@hold@viper by-\ht\hold@viper
10560 \global\advance\@colht by\ht@hold@viper
10561 \ifdim\@colht<2.5\baselineskip
10562     \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10563                             too tall on page \thepage (\var@@thecol@num column)}}%
10564     \@emptycol
10565     \if@firstcolumn
10566     \else
10567         \@emptycol
10568     \fi
10569     \global\@lastvipertrue
10570 \else
10571     \global\vsizel\@colht
10572     \global\@colroom\@colht
10573     \check@floats\cuted@@tempdim@a
10574     \ifdim\cuted@@tempdim@a>\z@
10575         \global\advance\@colroom by-\cuted@@tempdim@a
10576     \fi
10577     \ifdim\@colroom<\z@
10578         \global\@colroom1\p@

```



```

10579         \ifdim\cuted@@tempdim@a>\@colht
10580             \latex@warning@no@line{TOP and/or BOT FLOAT's
10581                 to large on \thepage (\var@@thecol@num column)}}%
10582         \fi
10583         \@emptycol
10584         \if@firstcolumn
10585         \else
10586             \@emptycol
10587         \fi
10588         \global\@lastvipertrue
10589     \fi
10590 \fi
10591 \fi
10592 \if@insert
10593 \else
10594     \advance\ht@hold@viper by-\ht@hold@viper
10595     \global\advance\@colht by\ht@hold@viper
10596     \global\setbox\hold@viper\ vbox{%
10597         \unvbox\hold@viper
10598         \set@split@topskip@to{\z@ plus2\p@}%
10599         \vsplit\@viper to\@colht
10600         \vss
10601     }%
10602     \vbox{%
10603         \global\@firstcolumnfalse
10604         \newpage
10605     \fi
10606 }

```

## 76 File cvthemebidicasual.sty

```

10607 \NeedsTeXFormat{LaTeX2e}
10608 \ProvidesPackage{cvthemebidicasual}
10609 \DeclareOption{blue}{}
10610 \newif\if@colourorange\@colourorangefalse
10611 \DeclareOption{orange}{\@colourorangetrue}
10612 \newif\if@colourgreen\@colourgreenfalse
10613 \DeclareOption{green}{\@colourgreentrue}
10614 \newif\if@colourred\@colourredfalse
10615 \DeclareOption{red}{\@colourredtrue}
10616 \newif\if@colourgrey\@colourgreyfalse
10617 \DeclareOption{grey}{\@colourgreytrue}
10618 \DeclareOption*{
10619     \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10620 \ExecuteOptions{colour}
10621 \ProcessOptions\relax
10622 \renewcommand*{\listitemsymbol}{\textbullet}
10623 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10624 \familynamecolour{808080}
10625 \firstnamecolour{A9A9A9}
10626 \quotecolour{696969}
10627 \addresscolour{696969}
10628 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10629 \sectiontitlecolour{1E90FF}

```



```

10630 \subsectioncolour{4682B4}
10631 \definecolor{rulecolour}{gray}{0.6}
10632 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10633 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10634 \if@colourorange
10635   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10636   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10637   \sectiontitlecolour{FF8C00}
10638   \subsectioncolour{FF8C00}
10639   \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10640   \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10641 \if@colourgreen
10642   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10643   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10644   \sectiontitlecolour{008000}
10645   \subsectioncolour{008000}
10646   \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10647   \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10648 \if@coloured
10649   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10650   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10651   \sectiontitlecolour{FF0000}
10652   \subsectioncolour{FF0000}
10653   \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10654   \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10655 \if@colougrey
10656   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10657   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10658   \sectiontitlecolour{808080}
10659   \subsectioncolour{808080}
10660   \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10661   \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10662 \renewcommand*{\ttdefault}{pcr}
10663 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10664 \renewcommand*{\familynamefont}{\firstnamefont}
10665 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10666 \renewcommand*{\quoteont}{\large\slshape}
10667 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10668 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10669 \renewcommand*{\maketitle}{%
10670   {%
10671     \ifthenelse{\isundefined{\@photo}}{%
10672       {%
10673         {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10674         \hfill%
10675         \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%
10676         {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
10677       \ifthenelse{\isundefined{\@quote}}{%
10678         {%
10679           \centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\%
10680         }%
10681       \newif\iffirstfooterelement\@firstfooterelementtrue
10682       \providecommand*{\footersymbol}{%
10683       \renewcommand*{\footersymbol}{%

```



```

10684 \if@firstfooterelement%
10685 \else%
10686 { ~\color{footersymbolcolor}\textbullet~~}\fi}
10687 \providecommand*\makefooter{}
10688 \renewcommand*\makefooter{%
10689 \fancypagestyle{plain}{%
10690 \fancyfoot[c]{%
10691 \parbox{0.8\textwidth}{%
10692 \centering%
10693 \addressfont\@addresscolour%
10694 \ifthenelse{isundefined{\@address}}{}{}%
10695 \addresssymbol~\@address\\%
10696 \@firstfooterelementfalse}%
10697 \ifthenelse{isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
10698 \ifthenelse{isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
10699 \ifthenelse{isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%
10700 \ifthenelse{isundefined{\@email}}{}{\footersymbol\emailsymbol~\email\@firstfooterelementfalse}%
10701 \ifthenelse{isundefined{\@extrainfo}}{}{\footersymbol\extrainfo\@firstfooterelementfalse}%
10702 }%
10703 \pagestyle{plain}}
10704 \AtBeginDocument{\makefooter}

```

## 77 File cvthemebidiclassic.sty

```

10705 \NeedsTeXFormat{LaTeX2e}
10706 \ProvidesPackage{cvthemebidiclassic}
10707 \DeclareOption{blue}{}
10708 \newif\if@colourorange\@colourorangefalse
10709 \DeclareOption{orange}{\@colourorangetrue}
10710 \newif\if@colourgreen\@colourgreenfalse
10711 \DeclareOption{green}{\@colourgreentrue}
10712 \newif\if@colourred\@colourredfalse
10713 \DeclareOption{red}{\@colourredtrue}
10714 \newif\if@colourgrey\@colourgreyfalse
10715 \DeclareOption{grey}{\@colourgreytrue}
10716 \DeclareOption*{
10717 \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
10718 \ExecuteOptions{colour}
10719 \ProcessOptions\relax
10720 \renewcommand*\listitemsymbol{\textbullet}
10721 \firstnamecolour{}
10722 \familynamecolour{}
10723 \titlecolour{808080}
10724 \quotecolour{696969}
10725 \addresscolour{696969}
10726 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10727 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10728 \sectiontitlecolour{1E90FF}
10729 \subsectioncolour{4682B4}
10730 \if@colourorange
10731 \addresscolour{FF8C00}
10732 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10733 \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10734 \sectiontitlecolour{FF8C00}

```





```

10735 \subsectioncolour{FF8C00}\fi
10736 \if@colourgreen
10737 \addresscolour{008000}
10738 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10739 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10740 \sectiontitlecolour{008000}
10741 \subsectioncolour{008000}\fi
10742 \if@colourred
10743 \addresscolour{FF0000}
10744 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10745 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10746 \sectiontitlecolour{FF0000}
10747 \subsectioncolour{FF0000}\fi
10748 \if@colourgrey
10749 \addresscolour{808080}
10750 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10751 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10752 \sectiontitlecolour{808080}
10753 \subsectioncolour{808080}\fi
10754 \renewcommand*{\ttdefault}{pcr}
10755 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10756 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10757 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10758 \renewcommand*{\familynamefont}{\firstnamefont}
10759 \renewcommand*{\quoteont}{\large\slshape}
10760 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10761 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10762 \newlength{\maketitlenamemaxwidth}
10763 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
10764 \newlength{\maketitlenamefullwidth}
10765 \settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
10766 \newlength{\maketitlenamewidth}
10767 \ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitlenamemaxwidth}
10768 \newlength{\maketitlepicturewidth}
10769 \setlength{\maketitlepicturewidth}{\@photowidth}
10770 \newlength{\maketitledetailwidth}
10771 \renewcommand*{\recomputethemelengths}{%
10772 \setlength{\maketitledetailwidth}{\textwidth}%
10773 \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
10774 \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10775 \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10776 \recomputethemelengths
10777 \newif\if@firstdetailselement\@firstdetailselementtrue
10778 \newcommand*{\maketitledetailnewline}{
10779 \if@firstdetailselement%
10780 \@firstdetailselementfalse%
10781 \else%
10782 \[\[.2em]\fi}
10783 \renewcommand*{\maketitle}{%
10784 % name and title
10785 \begin{minipage}[b]{\maketitlenamewidth}%
10786 \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10787 \ifthenelse{\equal{\@title}{}}{\[\[1.25em]\titlestyle{\@title}}%
10788 \end{minipage}%

```



```

10789 % optional data
10790 \begin{minipage}[b]{\maketitledetailswidth}%
10791   \bidi@raggedleft\addressfont\@addresscolour%
10792   \ifthenelse{\isundefined{\@address}}{\}%
10793     \maketitledetailsnewline%
10794     \addresssymbol~\@address%
10795     \ifthenelse{\isundefined{\@mobile}}{\}\{\maketitledetailsnewline\mobilesymbol~\@mobile}%
10796     \ifthenelse{\isundefined{\@phone}}{\}\{\maketitledetailsnewline\phonesymbol~\@phone}%
10797     \ifthenelse{\isundefined{\@fax}}{\}\{\maketitledetailsnewline\faxsymbol~\@fax}%
10798     \ifthenelse{\isundefined{\@email}}{\}\{\maketitledetailsnewline\emailsymbol~\emailink{\@e
10799     \ifthenelse{\isundefined{\@extrainfo}}{\}\{\maketitledetailsnewline\@extrainfo}%
10800 \end{minipage}%
10801 % optional photo
10802 \ifthenelse{\isundefined{\@photo}}%
10803   {%
10804     {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=
10805 % optional quote
10806 \ifthenelse{\isundefined{\@quote}}%
10807   {%
10808     {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\
10809   }

```

## 78 File dblfnote-xetex-bidi.def

```

10810 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10811 \let\autofootnoterule\relax
10812 \let\rightfootnoterule\relax
10813 \let\leftfootnoterule\relax
10814 \let\textwidthfootnoterule\relax
10815 \let\LRfootnoterule\relax
10816 \def\footnoterule{\kern-3\p@
10817   \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10818 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10819 \let\@footnotetext\dfn@footnotetext}
10820 \long\def\dfn@LTRfootnotetext#1{\setbox\dfn@boxa\vbox{
10821   \let\insert\dfn@gobble
10822   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10823   \def\@makefnmark{\smash{\dfn@makefnmark}}
10824   \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10825   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10826   \ifdim\dfn@dima>\z@else
10827     \dfn@dima1sp\relax
10828     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10829   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10830     \ifvoid\dfn@inselse
10831       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10832     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10833   \setbox\dfn@boxa\copy\dfn@ins
10834   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10835   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10836   \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10837   \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10838   \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10839 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext

```



```

10840 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10841 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
10842     \let\insert\dfn@gobble
10843     \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10844     \def\@makefnmark{\smash{\dfn@makefnmark}}
10845     \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10846     \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10847     \ifdim\dfn@dima>z@\else
10848         \dfn@dima1sp\relax
10849         \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10850     \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10851         \ifvoid\dfn@ins\else
10852             \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10853             \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10854     \setbox\dfn@boxa\copy\dfn@ins
10855     \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10856     \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10857     \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10858     \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10859     \xdef\dfn@list{\dfn@list\@elt{number\dfn@dima}{number\@tempdima}}}}
10860 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10861 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10862 \def\dfn@RTLmakecol{{\ifvoid\footins\else
10863     \dfn@dima\ht\footins
10864     \@tempcnta\z@ \dfn@countins
10865     \@tempdima\z@ \let\@elt\dfn@elt@getht
10866     \dfn@list\@nil
10867     \ifdim\@tempdima=\z@\else
10868         \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10869         \global\setbox\dfn@ins\box\dfn@ins
10870         \@tempswatrue
10871         \ifdfn@trysingle
10872             \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10873             \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10874             \advance\@tempdima-\skip\footins
10875             \advance\@tempdima-\ht\dfn@boxa
10876             \ifdim\@tempdima<\z@\else \@tempswafalse
10877                 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10878                     \footnoterule \unvbox\dfn@boxa}\fi\fi
10879             \if@tempswa
10880                 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10881                 \global\setbox\footins\vbox{\hbox{%
10882                     \hskip \DFNcolumnwidth
10883                     \hskip\DFNcolumnsep
10884                     \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10885                         \unvbox\dfn@boxb\vss}\hss}
10886                     \hskip -\textwidth
10887                     \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10888                         \vbox to\@tempdima{
10889                             \setbox\@tempboxa\vbox{\footnoterule}
10890                             \ifdfn@ruleboth \unvbox\@tempboxa
10891                             \else \@tempdima\ht\@tempboxa
10892                                 \advance\@tempdima\dp\@tempboxa
10893                                 \vskip\@tempdima

```



```

10894             \prevdepth\dp\@tempboxa \fi
10895             \unvbox\dfn@boxa\vss}\fi\hss}
10896             \hskip \DFNcolumnsep
10897             \hskip \DFNcolumnwidth}}\fi\fi
10898 \global\dfn@fnht\z@
10899 \ifx\dfn@list\@empty\else
10900     \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10901     \dfn@list \global\advance\dfn@fnht\dfn@dimb
10902     \let\@elt\relax
10903     \ifdim\dfn@dimb>\z@
10904         \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10905         \insert\footins{\floatingpenalty\@MM
10906             \vbox to\dfn@dimb{}}\fi
10907     \ifdim\dfn@fnht>\@tempdima
10908         \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10909         \global\dfn@fnht\@tempdima
10910         \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10911         \xdef\dfn@afteroutput{\insert\footins{
10912             \floatingpenalty\@MM
10913             \vbox to\number\@tempdimb sp{}}}%
10914         \global\let\noexpand\dfn@afteroutput\relax}%
10915     \fi\fi
10916 \fi}%
10917 \let\footnoterule\relax \dfn@latex@makecol
10918 \let\footnoterule\dfn@footnoterule}
10919 \def\dfn@LTRmakecol{\ifvoid\footins\else
10920     \dfn@dima\ht\footins
10921     \@tempcnta\z@ \dfn@countins
10922     \@tempdima\z@ \let\@elt\dfn@elt@getht
10923     \dfn@list\@nil
10924     \ifdim\@tempdima=\z@\else
10925     \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10926     \global\setbox\dfn@ins\box\dfn@ins
10927     \@tempswatrue
10928     \ifdfn@trysingle
10929         \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10930         \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10931         \advance\@tempdima-\skip\footins
10932         \advance\@tempdima-\ht\dfn@boxa
10933         \ifdim\@tempdima<\z@\else \@tempswafalse
10934             \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10935                 \footnoterule \unvbox\dfn@boxa}\fi\fi
10936     \if@tempswa
10937     \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10938     \global\setbox\footins\vbox{\hbox{%
10939         \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10940             \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10941         \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10942             \vbox to\@tempdima{
10943                 \setbox\@tempboxa\vbox{\footnoterule}
10944                 \ifdfn@ruleboth \unvbox\@tempboxa
10945                 \else \@tempdima\ht\@tempboxa
10946                 \advance\@tempdima\dp\@tempboxa
10947                 \vskip\@tempdima

```



```

10948 \prevdepth\dp\@tempboxa \fi
10949 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10950 \global\dfn@fnht\z@
10951 \ifx\dfn@list\@empty\else
10952 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10953 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10954 \let\@elt\relax
10955 \ifdim\dfn@dimb>\z@
10956 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10957 \insert\footins{\floatingpenalty\@MM
10958 \vbox to\dfn@dimb}}}\fi
10959 \ifdim\dfn@fnht>\@tempdima
10960 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10961 \global\dfn@fnht\@tempdima
10962 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}}%
10963 \xdef\dfn@afteroutput{\insert\footins{
10964 \floatingpenalty\@MM
10965 \vbox to\number\@tempdimb sp{}}}%
10966 \global\let\noexpand\dfn@afteroutput\relax}%
10967 \fi\fi
10968 \fi}%
10969 \let\footnoterule\relax \dfn@latex@makecol
10970 \let\footnoterule\dfn@footnoterule}
10971 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
10972 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
10973 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
10974 \DFNalwaysdouble

```

## 79 File diagbox-xetex-bidi.def

```

10975 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
10976 \bidi@patchcmd{\diagbox@double}{%
10977 \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}}
10978 }{\bidi@@diagbox@double@ii}{}}
10979 \bidi@patchcmd{\diagbox@double}{%
10980 \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10981 }{\bidi@@diagbox@double@iii}{}}
10982 \newcommand*{\bidi@@diagbox@double@ii}{%
10983 \if@RTL
10984 \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
10985 \else
10986 \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}}
10987 \fi
10988 }
10989 \newcommand*{\bidi@@diagbox@double@iii}{%
10990 \if@RTL
10991 \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}}
10992 \else
10993 \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10994 \fi
10995 }
10996 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10997 \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}}
10998 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{}}

```



```

10999 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11000     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11001 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11002 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11003     \begin{tabular}{@{}}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}
11004 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
11005 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
11006     \if@RTL
11007         \begin{tabular}{@{}}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}
11008     \else
11009         \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11010     \fi
11011 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
11012     \if@RTL
11013         \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11014     \else
11015         \begin{tabular}{@{}}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}
11016     \fi
11017 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
11018 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11019     \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
11020 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
11021 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11022     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11023 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11024 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11025     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11026 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11027 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%
11028     \if@RTL
11029         \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}
11030     \else
11031         \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
11032     \fi
11033 }
11034 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%
11035     \if@RTL
11036         \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
11037     \else
11038         \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}
11039     \fi
11040 }
11041 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11042 \bidi@patchcmd{\diagbox@double@pict@SE}{%
11043     \diagbox@setlinecolor
11044     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
11045 }{%
11046     {\diagbox@setlinecolor
11047     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
11048 }{-}{-}
11049 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11050 \bidi@patchcmd{\diagbox@double@pict@NE}{%
11051     \diagbox@setlinecolor
11052     \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%

```



```

11053 }{%
11054   {\diagbox@setlinecolor
11055     \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11056 }{}{}
11057 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11058 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
11059   \diagbox@setlinecolor
11060   \Line(0,\yym)(\x,0)
11061   \Line(\xm,\y)(\x,0)%
11062 }{%
11063   {\diagbox@setlinecolor
11064     \Line(0,\yym)(\x,0)
11065     \Line(\xm,\y)(\x,0)}%
11066 }{}{}
11067 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
11068   \diagbox@setlinecolor
11069   \Line(0,0)(\xxm,\y)
11070   \Line(0,0)(\x,\yym)%
11071 }{%
11072   {\diagbox@setlinecolor
11073     \Line(0,0)(\xxm,\y)
11074     \Line(0,0)(\x,\yym)}%
11075 }{}{}
11076 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
11077   \diagbox@setlinecolor
11078   \Line(0,\ym)(\x,\y)
11079   \Line(\xm,0)(\x,\y)%
11080 }{%
11081   {\diagbox@setlinecolor
11082     \Line(0,\ym)(\x,\y)
11083     \Line(\xm,0)(\x,\y)}%
11084 }{}{}
11085 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11086   \diagbox@setlinecolor
11087   \Line(0,\y)(\xxm,0)
11088   \Line(0,\y)(\x,\ym)%
11089 }{%
11090   {\diagbox@setlinecolor
11091     \Line(0,\y)(\xxm,0)
11092     \Line(0,\y)(\x,\ym)}%
11093 }{}{}

```

## 80 File draftwatermark-xetex-bidi.def

```

11094 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
11095 \renewcommand\SetWatermarkText[1]{%
11096   \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

## 81 File eso-pic-xetex-bidi.def

```

11097 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
11098 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
11099   \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}}
11100

```



```

11101 \ESO@isMEMOIR{%
11102   \renewcommand\AtTextUpperLeft[1]{%
11103     \begingroup
11104       \ifodd\c@page
11105         \if@RTLmain
11106           \ESO@tempdima=\paperwidth
11107           \advance\ESO@tempdima-\textwidth
11108           \advance\ESO@tempdima-\spinemargin
11109         \else
11110           \ESO@tempdima=\spinemargin
11111         \fi
11112       \else
11113         \if@RTLmain
11114           \ESO@tempdima=\spinemargin
11115         \else
11116           \ESO@tempdima=\paperwidth
11117           \advance\ESO@tempdima-\textwidth
11118           \advance\ESO@tempdima-\spinemargin
11119         \fi
11120       \fi
11121       \ESO@tempdimb=-\uppermargin
11122       \AtPageUpperLeft{%
11123         \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11124       }%
11125     \endgroup
11126   }
11127 }{%
11128   \renewcommand\AtTextUpperLeft[1]{%
11129     \begingroup
11130       \ESO@tempdima=1in\relax
11131       \if@twoside
11132         \ifodd\c@page
11133           \if@RTLmain
11134             \advance\ESO@tempdima\evensidemargin
11135           \else
11136             \advance\ESO@tempdima\oddsidemargin
11137           \fi
11138         \else
11139           \if@RTLmain
11140             \advance\ESO@tempdima\oddsidemargin
11141           \else
11142             \advance\ESO@tempdima\evensidemargin
11143           \fi
11144         \fi
11145       \else
11146         \advance\ESO@tempdima\oddsidemargin
11147       \fi
11148       \ESO@tempdimb=-1in\relax
11149       \advance\ESO@tempdimb-\topmargin
11150       \advance\ESO@tempdimb-\headheight
11151       \advance\ESO@tempdimb-\headsep
11152       \AtPageUpperLeft{%
11153         \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11154       }%

```





```

11155 \endgroup
11156 }
11157 }

```

## 82 File empheq-xetex-bidi.def

```

11158 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
11159 \MHInternalSyntaxOn
11160 \def\EQ_tag_plus_endmark:{%
11161 \iftagsleft@
11162 \gdef\maketag@@@##1{%
11163 \hfuzz\displaywidth
11164 \if@RTL\makebox[\widthof{##1}][r]{%
11165 \hbox to \displaywidth{\m@th\normalfont##1\hss
11166 \raisebox{-\dp\EQ_mathdisplay_box
11167 -\depthof{\EQ_outerbox:}}{
11168 {\PotEndMark{\hss}}}}
11169 \else\makebox[\widthof{##1}][l]{%
11170 \hbox to \displaywidth{\m@th\normalfont##1\hss
11171 \raisebox{-\dp\EQ_mathdisplay_box
11172 -\depthof{\EQ_outerbox:}}{
11173 {\PotEndMark{\hss}}}}\fi}%
11174 \MH_else:
11175 \gdef\maketag@@@##1{%
11176 \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11177 \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
11178 \MH_addtolength:dn \@tempdima
11179 {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11180 \setlength{\@tempdimb}
11181 {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
11182 +\depthof{\EQ_innerbox:}}
11183 \MH_if_dim:w \@tempdima>\@tempdimb
11184 \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11185 -\@tempdima+\g_EQ_bottomrow_depth_dim}
11186 \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
11187 \def\EQ_next:{\raisebox{\@tempdima}}%
11188 \MH_else:
11189 \def\EQ_next:{
11190 \raisebox{-\dp\EQ_mathdisplay_box
11191 -\depthof{\EQ_outerbox:}}}%
11192 \MH_fi:\EQ_next:}}}%
11193 \MH_fi:}
11194 \def\EQ_post_process:{%
11195 \EQ_initialize:
11196 \EQ_begin_equation:
11197 \MH_if_boolean:nT {outer_mult}{
11198 \setkeys{MT_options_name:}{
11199 firstline-afterskip=Opt,
11200 lastline-preskip=Opt,
11201 multlined-width=Opt,
11202 }
11203 \ifodd \l_EQ_alignmentmode_int
11204 \setkeys{MT_options_name:}{multlined-pos=b}
11205 \MH_else:

```



```

11206     \setkeys{\MT_options_name:}{multlined-pos=t}
11207     \MH_fi:
11208     \g@addto@macro\EQ_complete_mathdisplay:{
11209         \begin{MTmultlined}\relax
11210     }
11211     \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11212     \MH_if_boolean:nT {outer_mult}{
11213         \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11214     }
11215     \EQ_end_equation:
11216     \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11217     \savecounters@
11218     \EQ_typeset_tags:
11219     \edef\l_EQ_equation_fint{\number\c@equation}
11220     \restorecounters@
11221     \Hy@linkcounter=\EQ_hyperref_link_fint
11222     \settowidth\l_EQ_totalwidth_dim{%
11223         $\EQ_left_side:\EQ_innerbox:{}\EQ_right_side:$}%
11224     \MH_if_boolean:nTF {outer_mult}
11225     { \def\EQ_next:{_mult} }
11226     { \def\EQ_next:{} }
11227     \@nameuse{EQ_modify_linewidth_
11228         \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11229     \EQ_typeset_display:
11230     \@nameuse{EQ_find_displaywidth_
11231         \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11232     \MH_addtolength:dn
11233     \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
11234     \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11235         $\EQ_left_side:
11236         \EQ_innerbox:{%
11237             \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11238             \makebox[\l_EQ_displaywidth_dim][c]
11239             {\usebox{\EQ_mathdisplay_box}}}%
11240         \MH_or:
11241             \makebox[\l_EQ_displaywidth_dim][c]
11242             {\usebox{\EQ_mathdisplay_box}}}%
11243         \MH_or:
11244             \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11245                 \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11246                     \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11247                         \kern-\@mathmargin
11248                     \MH_fi:
11249                 \MH_fi:
11250                 \usebox{\EQ_mathdisplay_box}}%
11251             \else\makebox[\l_EQ_displaywidth_dim][l]{%
11252                 \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11253                     \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11254                         \kern-\@mathmargin
11255                     \MH_fi:
11256                 \MH_fi:
11257                 \usebox{\EQ_mathdisplay_box}}\fi%
11258             \MH_or:
11259             \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%

```



```

11260      \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11261      \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11262      \kern-\@mathmargin
11263      \MH_fi:
11264      \MH_fi:
11265      \usebox{\EQ_mathdisplay_box}}
11266      \else\makebox[\l_EQ_displaywidth_dim][l]{%
11267      \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11268      \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11269      \kern-\@mathmargin
11270      \MH_fi:
11271      \MH_fi:
11272      \usebox{\EQ_mathdisplay_box}}\fi%
11273      \MH_fi:}%
11274      \EQ_right_side:$}%
11275      \begin{AmSequation*}
11276      \@nameuse{EQ_place_display_
11277      \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11278      \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11279      \MH_set_boolean_T:n {show_manual_tags}
11280      \MH_if_case:w \l_EQ_alignmentmode_int
11281      \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %\#1
11282      \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %\#2
11283      \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %\#3
11284      \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %\#4
11285      \MH_fi:
11286      \MH_fi:
11287      \end{AmSequation*}
11288      \global\c@equation=\l_EQ_equation_fint\relax
11289      }
11290      \AtBeginDocument{%
11291      \@ifpackageloaded{fancybox}{%
11292      \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11293      {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
11294      \renewcommand*{shadowbox}{%
11295      \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
11296      \VerbBox\EQ_shadowbox:n}
11297      {\MH_set_boolean_F:n {shadowbox_star}
11298      \VerbBox\EQ_shadowbox:n}}
11299      \def\EQ_shadowbox:n #1{%
11300      \sbox{\z@}{\fbox{#1}}%
11301      \MH_if_boolean:nTF {shadowbox_star}{
11302      \MH_setlength:dn \@tempdima{\z@}%
11303      }{
11304      \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11305      }
11306      \raisebox{\@tempdima}{%
11307      \if@RTL\makebox[\z@][r]{%
11308      \kern\shadowsize \textcolor{shadowcolor}{%
11309      \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11310      }%
11311      \else\makebox[\z@][l]{%
11312      \kern\shadowsize \textcolor{shadowcolor}{%
11313      \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%

```



```

11314      }\fi%
11315      \usebox\z@\textcolor{shadowcolor}{%
11316        \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11317    }-%
11318  }
11319  \MHInternalSyntaxOff

```

## 83 File extarticle-xetex-bidi.def

```

11320 \ProvidesFile{extarticle-xetex-bidi.def}[2025/09/08 v0.7 bidi adaptations for extarticle cla
11321 \renewcommand*\l@section[2]{%
11322   \ifnum \c@tocdepth >\z@
11323     \addpenalty\@secpenalty
11324     \addvspace{1.0em \@plus\p@}%
11325     \setlength\@tempdima{1.5em}%
11326     \begingroup
11327       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11328       \parfillskip -\@pnumwidth
11329       \leavevmode \bfseries
11330       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
11331       \hskip -\if@RTL\rightskip\else\leftskip\fi
11332       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11333     \endgroup
11334   \fi}
11335 \renewcommand*\l@part[2]{%
11336   \ifnum \c@tocdepth >-2\relax
11337     \addpenalty\@secpenalty
11338     \addvspace{2.25em \@plus\p@}%
11339     \begingroup
11340       \setlength\@tempdima{3em}%
11341       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11342       \parfillskip -\@pnumwidth
11343       {\leavevmode
11344         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11345       \nobreak
11346     \endgroup
11347   \fi}
11348 \ApplyPatchIfPackageLoaded{nameref}{%
11349   \bidi@patchcmd\NR@part\raggedright{%
11350     \if@RTL\raggedleft\else\raggedright\fi
11351   }{\bidi@warningnoline{Oops! patching `string\NR@part' failed}}%
11352   \bidi@patchcmd\NR@spart\raggedright{%
11353     \if@RTL\raggedleft\else\raggedright\fi
11354   }{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}%
11355 }{%
11356   \bidi@patchcmd\@part\raggedright{%
11357     \if@RTL\raggedleft\else\raggedright\fi
11358   }{\bidi@warningnoline{Oops! patching `string\@part' failed}}%
11359   \bidi@patchcmd\@spart\raggedright{%
11360     \if@RTL\raggedleft\else\raggedright\fi
11361   }{\bidi@warningnoline{Oops! patching `string\@spart' failed}}%
11362 }
11363 \renewenvironment{thebibliography}[1]
11364   {\section*{\refname

```



```

11365         \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11366         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11367         \bidi@thebibliography@font@hook%
11368         \list{\@biblabel{\@arabic\c@enumiv}}%
11369             {\settowidth\labelwidth{\@biblabel{#1}}%
11370             \leftmargin\labelwidth
11371             \advance\leftmargin\labelsep
11372             \@openbib@code
11373             \usecounter{enumiv}%
11374             \let\p@enumiv\@empty
11375             \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11376         \sloppy\clubpenalty4000\widowpenalty4000%
11377         \sfcode`. \m
11378     {\def\@noitemerr
11379         {\@latex@warning{Empty `thebibliography' environment}}}%
11380     \endlist}
11381 \renewcommand\left@footnoterule{%
11382     \kern-3\p@
11383     \hrule\@width.4\columnwidth
11384     \kern2.6\p@}
11385 \renewcommand\right@footnoterule{%
11386     \kern-3\p@
11387     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11388     \kern2.6\p@}
11389     \if@titlepage
11390     \renewcommand\maketitle{\begin{titlepage}%
11391     \let\footnotesize\small
11392     \let\right@footnoterule\relax
11393     \let\left@footnoterule\relax
11394     \let\textwidth\footnoterule\relax
11395     \let \footnote \thanks
11396     \null\vfil
11397     \vskip 60\p@
11398     \begin{center}%
11399         {\LARGE \@title \par}%
11400         \vskip 3em%
11401         {\large
11402         \lineskip .75em%
11403         \begin{tabular}[t]{c}%
11404             \@author
11405             \end{tabular}\par}%
11406         \vskip 1.5em%
11407         {\large \@date \par}%           % Set date in \large size.
11408     \end{center}\par
11409     \@thanks
11410     \vfil\null
11411     \end{titlepage}%
11412     \setcounter{footnote}{0}%
11413     \global\let\thanks\relax
11414     \global\let\maketitle\relax
11415     \global\let\@thanks\@empty
11416     \global\let\@author\@empty
11417     \global\let\@date\@empty
11418     \global\let\@title\@empty

```



```

11419 \global\let\title\relax
11420 \global\let\author\relax
11421 \global\let\date\relax
11422 \global\let\and\relax
11423 }
11424 \else
11425 \renewcommand\maketitle{\par
11426 \begin{group}
11427 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11428 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11429 \long\def\@makefntext##1{\parindent 1em\noindent
11430 \hb@xt@1.8em{%
11431 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11432 \if@twocolumn
11433 \ifnum \col@number=\@one
11434 \@maketitle
11435 \else
11436 \twocolumn[\@maketitle]%
11437 \fi
11438 \else
11439 \newpage
11440 \global\@topnum\z@ % Prevents figures from going at top of page.
11441 \@maketitle
11442 \fi
11443 \thispagestyle{plain}\@thanks
11444 \endgroup
11445 \setcounter{footnote}{0}%
11446 \global\let\thanks\relax
11447 \global\let\maketitle\relax
11448 \global\let\@maketitle\relax
11449 \global\let\@thanks\@empty
11450 \global\let\@author\@empty
11451 \global\let\@date\@empty
11452 \global\let\@title\@empty
11453 \global\let\title\relax
11454 \global\let\author\relax
11455 \global\let\date\relax
11456 \global\let\and\relax
11457 }
11458 \def\@maketitle{%
11459 \newpage
11460 \null
11461 \vskip 2em%
11462 \begin{center}%
11463 \let \footnote \thanks
11464 {\LARGE \@title \par}%
11465 \vskip 1.5em%
11466 {\large
11467 \lineskip .5em%
11468 \begin{tabular}[t]{c}%
11469 \@author
11470 \end{tabular}\par}%
11471 \vskip 1em%
11472 {\large \@date}%

```



```

11473 \end{center}%
11474 \par
11475 \vskip 1.5em}
11476 \fi
11477 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@section}
11478 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11479 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11480 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

## 84 File extbook-xetex-bidi.def

```

11481 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
11482 \if@titlepage
11483 \renewcommand\maketitle{\begin{titlepage}%
11484 \let\footnotesize\small
11485 \let\right@footnoterule\relax
11486 \let\left@footnoterule\relax
11487 \let\textwidth@footnoterule\relax
11488 \let \footnote \thanks
11489 \let \LTRfootnote \LTRthanks
11490 \let \RTLfootnote \RTLthanks
11491 \null\vfil
11492 \vskip 60\p@
11493 \begin{center}%
11494 {\LARGE \@title \par}%
11495 \vskip 3em%
11496 {\large
11497 \lineskip .75em%
11498 \begin{tabular}[t]{c}%
11499 \@author
11500 \end{tabular}\par}%
11501 \vskip 1.5em%
11502 {\large \@date \par}% % Set date in \large size.
11503 \end{center}\par
11504 \@thanks
11505 \vfil\null
11506 \end{titlepage}%
11507 \setcounter{footnote}{0}%
11508 \global\let\thanks\relax
11509 \global\let\LTRthanks\relax
11510 \global\let\RTLthanks\relax
11511 \global\let\maketitle\relax
11512 \global\let\@thanks\@empty
11513 \global\let\@author\@empty
11514 \global\let\@date\@empty
11515 \global\let\@title\@empty
11516 \global\let\title\relax
11517 \global\let\author\relax
11518 \global\let\date\relax
11519 \global\let\and\relax
11520 }
11521 \else
11522 \renewcommand\maketitle{\par
11523 \begingroup

```



```

11524 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11525 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11526 \long\def\@makefntext##1{\parindent 1em\noindent
11527 \hb@xt@1.8em{%
11528 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11529 \if@twocolumn
11530 \ifnum \col@number=\@ne
11531 \@maketitle
11532 \else
11533 \twocolumn[\@maketitle]%
11534 \fi
11535 \else
11536 \newpage
11537 \global\@topnum\z@ % Prevents figures from going at top of page.
11538 \@maketitle
11539 \fi
11540 \thispagestyle{plain}\@thanks
11541 \endgroup
11542 \setcounter{footnote}{0}%
11543 \global\let\thanks\relax
11544 \global\let\LTRthanks\relax
11545 \global\let\RTLthanks\relax
11546 \global\let\maketitle\relax
11547 \global\let\@maketitle\relax
11548 \global\let\@thanks\@empty
11549 \global\let\@author\@empty
11550 \global\let\@date\@empty
11551 \global\let\@title\@empty
11552 \global\let\title\relax
11553 \global\let\author\relax
11554 \global\let\date\relax
11555 \global\let\and\relax
11556 }
11557 \def\@maketitle{%
11558 \newpage
11559 \null
11560 \vskip 2em%
11561 \begin{center}%
11562 \let \footnote \thanks
11563 \let \LTRfootnote \LTRthanks
11564 \let \RTLfootnote \RTLthanks
11565 {\LARGE \@title \par}%
11566 \vskip 1.5em%
11567 {\large
11568 \lineskip .5em%
11569 \begin{tabular}[t]{c}%
11570 \@author
11571 \end{tabular}\par}%
11572 \vskip 1em%
11573 {\large \@date}%
11574 \end{center}%
11575 \par
11576 \vskip 1.5em}
11577 \fi

```





```

11578 \renewcommand*\l@part[2]{%
11579   \ifnum \c@tocdepth >-2\relax
11580     \addpenalty{-\@highpenalty}%
11581     \addvspace{2.25em \@plus\p@}%
11582     \begingroup
11583       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11584       \parfillskip -\@pnumwidth
11585       {\leavevmode
11586         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11587       \nobreak
11588       \global\@nobreaktrue
11589       \everypar{\global\@nobreakfalse\everypar{}}%
11590     \endgroup
11591   \fi}
11592 \renewcommand\theequation
11593   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11594 \renewcommand \thefigure
11595   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11596 \renewcommand \thetable
11597   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11598 \renewcommand \thechapter {\@arabic\c@chapter}
11599 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11600 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11601 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11602 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11603 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
11604 \def\@makechapterhead#1{%
11605   \vspace*{50\p@}%
11606   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11607     \ifnum \c@secnumdepth >\m@ne
11608       \if@mainmatter
11609         \huge\bfseries \@chapapp\space \thechapter
11610         \par\nobreak
11611         \vskip 20\p@
11612       \fi
11613     \fi
11614     \interlinepenalty\@M
11615     \Huge \bfseries #1\par\nobreak
11616     \vskip 40\p@
11617   }}
11618
11619 \def\@makeschapterhead#1{%
11620   \vspace*{50\p@}%
11621   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11622     \normalfont
11623     \interlinepenalty\@M
11624     \Huge \bfseries #1\par\nobreak
11625     \vskip 40\p@
11626   }}
11627 \renewcommand\backmatter{%
11628   \if@openright
11629     \cleardoublepage
11630   \else
11631     \clearpage

```



```

11632 \fi
11633 \@mainmatterfalse}
11634 \renewenvironment{thebibliography}[1]
11635 {\chapter*{\bibname
11636 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11637 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
11638 \bidi@thebibliography@font@hook%
11639 \list{\@biblabel{\@arabic\c@enumiv}}%
11640 {\settowidth\labelwidth{\@biblabel{#1}}%
11641 \leftmargin\labelwidth
11642 \advance\leftmargin\labelsep
11643 \@openbib@code
11644 \usecounter{enumiv}%
11645 \let\p@enumiv\@empty
11646 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11647 \sloppy
11648 \clubpenalty4000
11649 \@clubpenalty \clubpenalty
11650 \widowpenalty4000%
11651 \sfcode`. \@m}
11652 {\def\@noitemerr
11653 {\@latex@warning{Empty `thebibliography' environment}}}%
11654 \endlist}

```

## 85 File extletter-xetex-bidi.def

```

11655 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class]
11656 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
11657 \thispagestyle{firstpage}%
11658 {\ifRTL\raggedright\else\raggedleft\fi\@date\par}%
11659 \else % home address
11660 \thispagestyle{empty}%
11661 {\ifRTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
11662 \fromaddress \*[2\parskip]%
11663 \@date \end{tabular}\par}%
11664 \fi
11665 \vspace{2\parskip}%
11666 {\ifRTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
11667 \vspace{2\parskip}%
11668 #1\par\nobreak}
11669 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11670 \stopbreaks
11671 \noindent
11672 \ifx\@empty\fromaddress\else
11673 \hspace*{\longindentation}\fi
11674 \parbox{\indentedwidth}{\ifRTL\raggedleft\else\raggedright\fi
11675 \ignorespaces #1\ \ [6\medskipamount]}%
11676 \ifx\@empty\fromsig
11677 \fromname
11678 \else \fromsig \fi\strut}%
11679 \par}
11680 \renewcommand\left@footnoterule{%
11681 \kern-\p@
11682 \hrule \@width .4\columnwidth

```



```

11683 \kern .6\p@}
11684 \renewcommand\right@footnoterule{%
11685 \kern-\p@
11686 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11687 \kern .6\p@}

```

## 86 File extrafootnotefeatures-xetex-bidi.def

```

11688 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2025/01/03 v2.7 bidi extra footnote feat
11689 \newdimen\bidi@columnwidth
11690 \def\bidi@floathook{%
11691 \bidi@columnwidth\columnwidth
11692 }
11693 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11694 \if@bidi@csundef{ifHy@hyperfootnotes}{}{%
11695 \if@bidi@csundef{HLTR@@LTRfootnotetext}{}{%
11696 \ifHy@hyperfootnotes
11697 \let\@@H@@footnotetext\@footnotetext
11698 \let\@@HLTR@@LTRfootnotetext\@LTRfootnotetext
11699 \let\@@HRTL@@RTLfootnotetext\@RTLfootnotetext
11700 \let\@@H@@mpfootnotetext\@mpfootnotetext
11701 \let\@@HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11702 \let\@@HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11703 \fi
11704 }%
11705 }%
11706 }
11707 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11708 \if@bidi@csundef{ifHy@hyperfootnotes}{}{%
11709 \if@bidi@csundef{HLTR@@LTRfootnotetext}{}{%
11710 \ifHy@hyperfootnotes
11711 \let\H@@footnotetext\@footnotetext
11712 \let\@footnotetext\@@H@@footnotetext
11713 \let\HLTR@@LTRfootnotetext\@LTRfootnotetext
11714 \let\@LTRfootnotetext\@@HLTR@@LTRfootnotetext
11715 \let\HRTL@@RTLfootnotetext\@RTLfootnotetext
11716 \let\@RTLfootnotetext\@@HRTL@@RTLfootnotetext
11717 \let\H@@mpfootnotetext\@mpfootnotetext
11718 \let\@mpfootnotetext\@@H@@mpfootnotetext
11719 \let\HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11720 \let\@mpLTRfootnotetext\@@HLTR@@mpLTRfootnotetext
11721 \let\HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11722 \let\@mpRTLfootnotetext\@@HRTL@@mpRTLfootnotetext
11723 \fi
11724 }%
11725 }%
11726 }
11727 \let\autofootnoterule\relax
11728 \let\rightfootnoterule\relax
11729 \let\leftfootnoterule\relax
11730 \let\textwidthfootnoterule\relax
11731 \let\LRfootnoterule\relax
11732 \def\footnoterule{\kern-3\p@
11733 \hrule \@width \columnwidth \kern 2.6\p@}

```



```

11734 \newcommand{\@preamnormalfmt}{%
11735   \parindent 1em%
11736   \noindent
11737 }
11738 \newcommand{\@normalfootfmt}[1]{%
11739   \@preamnormalfmt
11740   \footfootmark
11741   \rule{z@\footnotesep}{\ignorespaces{\foottextfont #1}%
11742   \@finalstrut\strutbox
11743 }
11744 \newcommand{\@normalRTLfootfmt}[1]{%
11745   \@preamnormalfmt
11746   \RTLfootfootmark
11747   \rule{z@\footnotesep}{\ignorespaces{\RTLfoottextfont #1}%
11748   \@finalstrut\strutbox
11749 }
11750 \newcommand{\@normalLTRfootfmt}[1]{%
11751   \@preamnormalfmt
11752   \LTRfootfootmark
11753   \rule{z@\footnotesep}{\ignorespaces{\LTRfoottextfont #1}%
11754   \@finalstrut\strutbox
11755 }
11756 \renewcommand{\@footnotetext}[1]{%
11757   \insert\footins{%
11758     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11759     \def\baselinestretch{\m@m@footnote@spacing}%
11760     \reset@font
11761     \foottextfont
11762     \@preamfntext
11763     \hsize\columnwidth
11764     \protected@edef\@currentlabel{%
11765       \csname p@footnote\endcsname\@thefnmark}%
11766     \color@begingroup
11767       \@normalfootfmt{#1}%
11768     \color@endgroup}%
11769     \m@mmf@prepare}
11770 \newcommand{\@bidi@bidiold@footnotetext}[1]{%
11771   \bidi@step@absolute@footnote@count
11772   \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11773   \insert\footins{%
11774     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11775     \def\baselinestretch{\m@m@footnote@spacing}%
11776     \reset@font
11777     \foottextfont
11778     \@preamfntext
11779     \hsize\columnwidth
11780     \protected@edef\@currentlabel{%
11781       \csname p@footnote\endcsname\@thefnmark}%
11782     \color@begingroup
11783       \@normalfootfmt{#1}%
11784     \color@endgroup}%
11785     \m@mmf@prepare}
11786 }
11787 \renewcommand{\@RTLfootnotetext}[1]{%

```



```

11788 \insert\footins{%
11789 \RTLtrue%
11790 \def\baselinestretch{\m@m@footnote@spacing}%
11791 \reset@font
11792 \RTLfoottextfont
11793 \@preamfntext
11794 \hsize\columnwidth
11795 \protected@edef\@currentlabel{%
11796 \csname p@footnote\endcsname\@thefnmark}%
11797 \color@begingroup
11798 \@normalRTLfootfmt{#1}%
11799 \color@endgroup}%
11800 \m@m@mmf@prepare}
11801 \newcommand{\bidi@bidiold@RTLfootnotetext}[1]{%
11802 \bidi@step@absolute@footnote@count
11803 \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11804 \insert\footins{%
11805 \RTLtrue%
11806 \def\baselinestretch{\m@m@footnote@spacing}%
11807 \reset@font
11808 \RTLfoottextfont
11809 \@preamfntext
11810 \hsize\columnwidth
11811 \protected@edef\@currentlabel{%
11812 \csname p@footnote\endcsname\@thefnmark}%
11813 \color@begingroup
11814 \@normalRTLfootfmt{#1}%
11815 \color@endgroup}%
11816 \m@m@mmf@prepare
11817 }
11818 \renewcommand{\@LTRfootnotetext}[1]{%
11819 \insert\footins{%
11820 \RTLfalse%
11821 \def\baselinestretch{\m@m@footnote@spacing}%
11822 \reset@font
11823 \LTRfoottextfont
11824 \@preamfntext
11825 \hsize\columnwidth
11826 \protected@edef\@currentlabel{%
11827 \csname p@footnote\endcsname\@thefnmark}%
11828 \color@begingroup
11829 \@normalLTRfootfmt{#1}%
11830 \color@endgroup}%
11831 \m@m@mmf@prepare}
11832 \renewcommand{\@mpfootnotetext}[1]{%
11833 \global\setbox\@mpfootins\vbox{%
11834 \unvbox\@mpfootins
11835 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
11836 \def\baselinestretch{\m@m@footnote@spacing}%
11837 \reset@font%
11838 \foottextfont \hsize\columnwidth \@parboxrestore
11839 \protected@edef\@currentlabel{%
11840 \csname p@mpfootnote\endcsname\@thefnmark}%
11841 \color@begingroup

```



```

11842 \normalfootfmt{#1}%
11843 \color@endgroup}}
11844 \newcommand{\bidi@bidiold@mpfootnotetext}[1]{%
11845 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11846 \global\setbox\@mpfootins\vbox{%
11847 \unvbox\@mpfootins
11848 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11849 \def\baselinestretch{\m@m@footnote@spacing}%
11850 \reset@font%
11851 \foottextfont \hsize\columnwidth \@parboxrestore
11852 \protected@edef\@currentlabel{%
11853 \csname p@mpfootnote\endcsname\@thefnmark}%
11854 \color@begingroup
11855 \normalfootfmt{#1}%
11856 \color@endgroup}}
11857 \renewcommand{\@mpLTRfootnotetext}[1]{%
11858 \global\setbox\@mpfootins\vbox{%
11859 \unvbox\@mpfootins
11860 \@RTLfalse
11861 \def\baselinestretch{\m@m@footnote@spacing}%
11862 \reset@font%
11863 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11864 \protected@edef\@currentlabel{%
11865 \csname p@mpfootnote\endcsname\@thefnmark}%
11866 \color@begingroup
11867 \normalLTRfootfmt{#1}%
11868 \color@endgroup}}
11869 \renewcommand{\@mpRTLfootnotetext}[1]{%
11870 \global\setbox\@mpfootins\vbox{%
11871 \unvbox\@mpfootins
11872 \@RTLtrue
11873 \def\baselinestretch{\m@m@footnote@spacing}%
11874 \reset@font%
11875 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11876 \protected@edef\@currentlabel{%
11877 \csname p@mpfootnote\endcsname\@thefnmark}%
11878 \color@begingroup
11879 \normalRTLfootfmt{#1}%
11880 \color@endgroup}}
11881 \newcommand{\bidi@bidiold@mpRTLfootnotetext}[1]{%
11882 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11883 \global\setbox\@mpfootins\vbox{%
11884 \unvbox\@mpfootins
11885 \@RTLtrue
11886 \def\baselinestretch{\m@m@footnote@spacing}%
11887 \reset@font%
11888 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11889 \protected@edef\@currentlabel{%
11890 \csname p@mpfootnote\endcsname\@thefnmark}%
11891 \color@begingroup
11892 \normalRTLfootfmt{#1}%
11893 \color@endgroup}}
11894 \let\m@mold@footnotetext\@footnotetext
11895 \let\m@mold@LTRfootnotetext\@LTRfootnotetext

```



```

11896 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11897 \let\m@mold@mpfootnotetext\@mpfootnotetext
11898 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11899 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11900 \bidi@ensure@newcommand{\normalfootnotes}{%
11901   \@bidi@before@Hy@hyperfootnotes
11902   \let\@footnotetext\m@mold@footnotetext
11903   \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11904   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11905   \let\@mpfootnotetext\m@mold@mpfootnotetext
11906   \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11907   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11908   \@bidi@after@Hy@hyperfootnotes
11909   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11910 }
11911 \IfClassLoadedT{memoir}{\let\plainfootnotes\normalfootnotes}
11912 \bidi@ensure@newcommand*{\setSingleSpace}[1]{%
11913   \def\m@m@singlespace{#1}%
11914   \def\m@m@footnote@spacing{#1}%
11915   \def\m@m@float@spacing{#1} %
11916 }
11917 \setSingleSpace{1}
11918 \bidi@ensure@newcommand*{\multiplefootnotemarker}{3sp}
11919 \bidi@ensure@newcommand*{\m@m@mmf@prepare}{%
11920   \kern-\multiplefootnotemarker
11921   \kern\multiplefootnotemarker\relax}
11922 \bidi@ensure@newlength{\footmarkwidth}
11923 \bidi@ensure@newcommand*{\footmarkstyle}[1]{\def\footscript##1{#1}}
11924 \bidi@ensure@newcommand*{\LTRfootmarkstyle}[1]{\def\LTRfootscript##1{#1}}
11925 \bidi@ensure@newcommand*{\RTLfootmarkstyle}[1]{\def\RTLfootscript##1{#1}}
11926 \bidi@ensure@newcommand{\footfootmark}{%
11927   \ifdim\footmarkwidth < \z@
11928     \llap{\hb@xt@ -\footmarkwidth{%
11929       \hss\normalfont\footscript{\@thefnmark}}}%
11930     \hspace*{-\footmarkwidth}}%
11931   \else
11932     \ifdim\footmarkwidth = \z@
11933       {\normalfont\footscript{\@thefnmark}}%
11934     \else
11935       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11936     \fi
11937   \fi}
11938 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11939   \ifdim\footmarkwidth < \z@
11940     \llap{\hb@xt@ -\footmarkwidth{%
11941       \hss\normalfont\LTRfootscript{\@thefnmark}}}%
11942     \hspace*{-\footmarkwidth}}%
11943   \else
11944     \ifdim\footmarkwidth = \z@
11945       {\normalfont\LTRfootscript{\@thefnmark}}%
11946     \else
11947       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11948     \fi
11949   \fi}

```



```

11950 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11951   \ifdim\footmarkwidth < \z@
11952     \llap{\hb@xt@ -\footmarkwidth{%
11953       \hss\normalfont\RTLfootscript{\@thefnmark}}%
11954       \hspace*{-\footmarkwidth}}}%
11955   \else
11956     \ifdim\footmarkwidth = \z@
11957       {\normalfont\RTLfootscript{\@thefnmark}}%
11958     \else
11959       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11960     \fi
11961   \fi}
11962 \footmarkstyle{\textsuperscript{#1}}
11963 \LTRfootmarkstyle{\textsuperscript{#1}}
11964 \RTLfootmarkstyle{\textsuperscript{#1}}
11965 \newcommand*{\bidi@normal@footmarkwidth}{%
11966   \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11967 }
11968 \newcommand*{\bidi@star@footmarkwidth}{%
11969   \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11970 }
11971 \bidi@normal@footmarkwidth
11972 \bidi@ensure@newcommand{\m@doextrafeet}{\extrafeetins}
11973 \bidi@ensure@newcommand*{\extrafeetins}{%
11974   \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11975   \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11976   \bidi@joinfootnotes\@bidi@copyins@{\unvbox\@bidi@copyins@}%
11977   \extrafeetinshook}
11978 \bidi@ensure@newcommand{\extrafeetinshook}{%
11979   \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11980   \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11981   \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11982   \bidi@ensure@newlength{\footinsdim}
11983   \setlength{\footinsdim}{8in} % standard for \dimen\footins
11984   \bidi@ensure@newcommand{\@preamfntext}{%
11985     \interlinepenalty\interfootnotelinepenalty
11986     \floatingpenalty \@MM
11987     \splittopskip=\footnotesep
11988     \splitmaxdepth=\dp\strutbox
11989     \@parboxrestore}
11990 \def\bidi@ifmulticol#1#2{\@tempswafalse
11991   \ifnum\col@number>\@ne
11992     \ifnum\count\footins>1999 \@tempwattrue \fi
11993   \fi
11994   \if@tempswa #1\else #2\fi
11995 }
11996 \def\bidi@joinfootnotes#1#2#3{%
11997   \ifvoid#1
11998     \else
11999     \@tempskipa\skip#1%
12000     \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
12001     \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
12002     \bidi@removexfootskip
12003   \ifvoid\footins

```





```

12004     \global\setbox\footins\vbox{#2#3}%
12005     \else
12006     \global\setbox\footins\vbox{%
12007         \unvbox\footins
12008         \bidi@footskip
12009         #2#3%
12010     }%
12011     \fi
12012 \fi
12013 }
12014 \def\bidi@reinsertfootnote#1#2#3{%
12015     \ifvoid#1%
12016     \else
12017         \insert\footins{#2#3}%
12018     \fi
12019 }
12020 \def\bidi@joinmpfootnotes#1#2#3{%
12021     \ifvoid#1
12022     \else
12023         \@tempskipa\skip#1%
12024         \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
12025         \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
12026         \bidi@removexfootskip
12027         \ifvoid\@mpfootins
12028             \global\setbox\@mpfootins\vbox{#2#3}%
12029         \else
12030             \global\setbox\@mpfootins\vbox{%
12031                 \unvbox\@mpfootins
12032                 \bidi@footskip
12033                 #2#3%
12034             }%
12035         \fi
12036     \fi
12037 }
12038 \newcount\bidi@absolutepage@count
12039 \bidi@absolutepage@count\@ne
12040 \newcount\bidi@absolutefootnote@count
12041 \bidi@AfterOutputBoxOutputPage{%
12042     \if@filesw
12043         \edef\@tempa{%
12044             \write\@auxout{%
12045                 \string\bidi@finalfootnoteperpage%
12046                 {\noexpand\number\noexpand\bidi@absolutepage@count}%
12047                 {\noexpand\number\noexpand\bidi@absolutefootnote@count}%
12048             }%
12049         }%
12050         \@tempa
12051     \fi
12052 }
12053 \bidi@AtEndOutputPage{%
12054     \global\advance\bidi@absolutepage@count\@ne
12055 }
12056 \newcommand*{\bidi@finalfootnoteperpage}[2]{%
12057     \expandafter\gdef\csname bidi@currentpagefinalfootnote@@#1\endcsname{#2}%

```



```

12058 }
12059 \newif\if@bidi@finalfootnoteperpage
12060 \newcommand{\bidi@ifafterfinalfootnoteperpage}[2]{%
12061   \if@bidi@csundef\bidi@currentpagefinalfootnote@@\number\bidi@absolute@page@count}{%
12062     \global\@bidi@finalfootnoteperpagetrue
12063   }{%
12064     \global\@bidi@finalfootnoteperpagefalse
12065     \ifnum\bidi@absolute@footnote@count=\bidi@csuse\bidi@currentpagefinalfootnote@@\number\bidi@absolute@footnote@count
12066       #1%
12067     \else
12068       #2%
12069     \fi
12070   }%
12071 }
12072 \newcommand{\bidi@reinsertfinalfootnoteperpage}[3]{%
12073   \bidi@ifafterfinalfootnoteperpage{%
12074     \bidi@reinsertfootnote{#1}{#2}{#3}%
12075   }{%
12076   }%
12077 }
12078 \newcommand*{\bidi@step@absolute@footnote@count}{%
12079   \global\advance\bidi@absolute@footnote@count\@ne
12080 }
12081 \bidi@AfterEndDocumentCheckLabelsRerun{%
12082   \if@bidi@finalfootnoteperpage
12083     \PackageWarningNoLine{bidi}{%
12084       The absolute final footnote is not
12085       known on every page of your
12086       document. Rerun TeX to get the
12087       absolute final footnote on every page
12088       of your document%
12089     }%
12090   \fi
12091 }
12092 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
12093   \extrafeetminihook}
12094 \bidi@ensure@newcommand{\extrafeetendmini}{%
12095   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12096   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12097   \extrafeetendminihook}
12098 \bidi@ensure@newcommand{\extrafeetendminihook}{%
12099   \bidi@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
12100 \def\endminipage{%
12101   \par
12102   \unskip
12103   \m@mdoextrafeetendmini
12104   \ifvoid\@mpfootins
12105     \else
12106       \vskip\skip\@mpfootins
12107       \normalcolor
12108       \footnoterule
12109       \unvbox\@mpfootins
12110   \fi
12111   \@minipagefalse

```



```

12112 \color@endgroup
12113 \egroup
12114 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12115 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
12116 \@namedef{\footstart#1}{%
12117 \leftskip=\z@
12118 \rightskip=\z@
12119 \parindent=\z@
12120 }%
12121 }
12122 \newinsert\footinsv@r
12123 \skip\footinsv@r\skip\footins
12124 \count\footinsv@r=1000 % no magnification
12125 \dimen\footinsv@r=\footinsdim
12126 \m@make@footstart{v@r}
12127 \newinsert\footinsv@l
12128 \skip\footinsv@l\skip\footins
12129 \count\footinsv@l=1000 % no magnification
12130 \dimen\footinsv@l=\footinsdim
12131 \m@make@footstart{v@l}
12132 \bidi@ensure@newcommand{\@footgroupv@r}{\@}
12133 \newinsert\@mpfootinsv@r
12134 \skip\@mpfootinsv@r\skip\@mpfootins
12135 \newinsert\@mpfootinsv@l
12136 \skip\@mpfootinsv@l\skip\@mpfootins
12137 \bidi@ensure@newcommand{\mp@footgroupv@r}{\@}
12138 \newcount\m@m@k \newdimen\m@m@h
12139 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12140 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12141 \valign{##\vfill\cr\m@m@dosplits}\endR}}
12142 \newcommand*{\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12143 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12144 \valign{##\vfill\cr\m@m@dosplits}\endL}}
12145 \bidi@ensure@newcommand*{\m@m@dosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@m@splitoff
12146 \global\advance\m@m@k-1\cr\m@m@dosplits\fi}
12147 \bidi@ensure@newcommand*{\m@m@splitoff}{\dimen0=\ht0
12148 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
12149 \setbox2 \vsplit0 to \dimen0
12150 \unvbox2 }
12151 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
12152 \@namedef{\foottextfontv@r}{\foottextfont}% % [RS]
12153 \@namedef{\foottextfontv@l}{\LTRfoottextfont}%
12154 \@bidi@before@Hy@hyperfootnotes
12155 \let\@footnotetext\@twocolfootnotetext
12156 \let\@LTRfootnotetext\@twocolLTRfootnotetext
12157 \let\@RTLfootnotetext\@twocolRTLfootnotetext
12158 \dimen\footinsv@r=2\footinsdim
12159 \count\footinsv@r=500\relax
12160 \m@make@twocol@footgroup{v@r}%
12161 \let\@footgroupv@r\@twocol@footgroupv@r
12162 \dimen\footinsv@l=2\footinsdim
12163 \count\footinsv@l=500\relax
12164 \bidi@make@twocol@LTRfootgroup{v@l}%
12165 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l

```



```

12166 \let\@mpfootnotetext\@mptwocolfootnotetext
12167 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
12168 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12169 \@bidi@after@Hy@hyperfootnotes
12170 \m@make@mptwocol@footgroup{v@r}%
12171 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12172 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12173 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12174 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12175 }
12176 \newcommand{\TwoColumnFootnotes}{%
12177 \@namedef{foottextfontv@r}{\foottextfont}%
12178 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12179 \@bidi@before@Hy@hyperfootnotes
12180 \let\@footnotetext\@TwoColfootnotetext
12181 \let\@LTRfootnotetext\@TwoColLTRfootnotetext
12182 \let\@RTLfootnotetext\@TwoColRTLfootnotetext
12183 \dimen\footinsv@r=2\footinsdim
12184 \count\footinsv@r=500\relax
12185 \m@make@twocol@footgroup{v@r}%
12186 \let\@footgroupv@r\@twocol@footgroupv@r
12187 \dimen\footinsv@l=2\footinsdim
12188 \count\footinsv@l=500\relax
12189 \bidi@make@twocol@LTRfootgroup{v@l}%
12190 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12191 \let\@mpfootnotetext\@mpTwoColfootnotetext
12192 \let\@mpLTRfootnotetext\@mpTwoColLTRfootnotetext
12193 \let\@mpRTLfootnotetext\@mpTwoColRTLfootnotetext
12194 \@bidi@after@Hy@hyperfootnotes
12195 \m@make@mptwocol@footgroup{v@r}%
12196 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12197 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12198 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12199 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12200 }
12201 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12202 \if@RTL@footnote
12203 \footinsv@r
12204 \else
12205 \footinsv@l
12206 \fi
12207 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12208 \def\baselinestretch{\m@mm@footnote@spacing}%
12209 \reset@font\foottextfont
12210 \@preamfntext
12211 \protected@edef\@currentlabel{%
12212 \csname p@footnote\endcsname\@thefnmark}%
12213 \color@begingroup
12214 \@twocolfootfmt{#1}%
12215 \color@endgroup}%
12216 \m@mmf@prepare}
12217 \newcommand{\@TwoColfootnotetext}[1]{%
12218 \bidi@step@absolutefootnote@count
12219 \if@RTL@footnote

```



```

12220 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12221 \else
12222 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12223 \fi
12224 \global\setbox
12225 \if@RTL@footnote
12226 \footinsv@r
12227 \else
12228 \footinsv@l
12229 \fi
12230 \vbox{%
12231 \unvbox
12232 \if@RTL@footnote
12233 \footinsv@r
12234 \else
12235 \footinsv@l
12236 \fi
12237 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12238 \def\baselinestretch{\m@m@footnote@spacing}%
12239 \reset@font\foottextfont
12240 \@preamfntext
12241 \protected@edef\@currentlabel{%
12242 \csname p@footnote\endcsname\@thefnmark}%
12243 \color@begingroup
12244 \@twocolfootfmt{#1}%
12245 \color@endgroup}%
12246 \m@mmf@prepare
12247 \if@RTL@footnote
12248 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12249 \else
12250 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12251 \fi
12252 }
12253 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12254 \def\baselinestretch{\m@m@footnote@spacing}%
12255 \reset@font\LTRfoottextfont
12256 \@preamfntext
12257 \protected@edef\@currentlabel{%
12258 \csname p@footnote\endcsname\@thefnmark}%
12259 \color@begingroup
12260 \@twocolLTRfootfmt{#1}%
12261 \color@endgroup}%
12262 \m@mmf@prepare}
12263 \newcommand{\@TwoColLTRfootnotetext}[1]{%
12264 \bidi@step@absolute@footnote@count
12265 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12266 \global\setbox\footinsv@l\vbox{%
12267 \unvbox\footinsv@l
12268 \@RTLfalse
12269 \def\baselinestretch{\m@m@footnote@spacing}%
12270 \reset@font\LTRfoottextfont
12271 \@preamfntext
12272 \protected@edef\@currentlabel{%
12273 \csname p@footnote\endcsname\@thefnmark}%

```



```

12274 \color@begingroup
12275 \@twocolLTRfootfmt{#1}%
12276 \color@endgroup}%
12277 \m@mmf@prepare
12278 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12279 }
12280 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12281 \def\baselinestretch{\m@mm@footnote@spacing}%
12282 \reset@font\RTLfoottextfont
12283 \@preamftext
12284 \protected@edef\@currentlabel{%
12285 \csname p@footnote\endcsname\@thefnmark}%
12286 \color@begingroup
12287 \@twocolRTLfootfmt{#1}%
12288 \color@endgroup}%
12289 \m@mmf@prepare}
12290 \newcommand{\@TwoColRTLfootnotetext}[1]{%
12291 \bidi@step@absolutefootnote@count
12292 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12293 \global\setbox\footinsv@r\vbox{%
12294 \unvbox\footinsv@r
12295 \@RTLtrue
12296 \def\baselinestretch{\m@mm@footnote@spacing}%
12297 \reset@font\RTLfoottextfont
12298 \@preamftext
12299 \protected@edef\@currentlabel{%
12300 \csname p@footnote\endcsname\@thefnmark}%
12301 \color@begingroup
12302 \@twocolRTLfootfmt{#1}%
12303 \color@endgroup}%
12304 \m@mmf@prepare
12305 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12306 }
12307 \bidi@ensure@newcommand{\@preamtwofmt}{%
12308 \hspace{.45\hsize}
12309 \parindent=\z@
12310 \tolerance=5000\relax
12311 \leavevmode}
12312 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12313 \@preamtwofmt
12314 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12315 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12316 \@preamtwofmt
12317 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12318 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12319 \@preamtwofmt
12320 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12321 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
12322 \global\setbox
12323 \if@RTL@footnote
12324 \@mpfootinsv@r
12325 \else
12326 \@mpfootinsv@l
12327 \fi

```



```

12328 \vbox{%
12329   \unvbox
12330   \if@RTL@footnote
12331     \@mpfootinsv@r
12332 \else
12333   \@mpfootinsv@l
12334 \fi
12335   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12336   \def\baselinestretch{\m@m@footnote@spacing}%
12337   \reset@font\foottextfont
12338   \hsize\columnwidth \@parboxrestore
12339   \protected@edef\@currentlabel{%
12340     \csname p@mpfootnote\endcsname\@thefnmark}%
12341 \color@begingroup
12342   \@twocolfootfmt{#1}%
12343 \color@endgroup}%
12344 \m@m@mmf@prepare}
12345 \newcommand{\@mpTwoColfootnotetext}[1]{%
12346   \if@RTL@footnote
12347     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12348 \else
12349     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12350 \fi
12351 \global\setbox
12352   \if@RTL@footnote
12353     \@mpfootinsv@r
12354 \else
12355     \@mpfootinsv@l
12356 \fi
12357 \vbox{%
12358   \unvbox
12359   \if@RTL@footnote
12360     \@mpfootinsv@r
12361 \else
12362     \@mpfootinsv@l
12363 \fi
12364   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12365   \def\baselinestretch{\m@m@footnote@spacing}%
12366   \reset@font\foottextfont
12367   \hsize\columnwidth \@parboxrestore
12368   \protected@edef\@currentlabel{%
12369     \csname p@mpfootnote\endcsname\@thefnmark}%
12370 \color@begingroup
12371   \@twocolfootfmt{#1}%
12372 \color@endgroup}%
12373 \m@m@mmf@prepare}
12374 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
12375   \global\setbox\@mpfootinsv@l\vbox{%
12376     \unvbox\@mpfootinsv@l
12377     \@RTLfalse
12378     \def\baselinestretch{\m@m@footnote@spacing}%
12379     \reset@font\LTRfoottextfont
12380     \hsize\columnwidth \@parboxrestore
12381     \protected@edef\@currentlabel{%

```



```

12382 \csname p@mpfootnote\endcsname\@thefnmark}%
12383 \color@begingroup
12384 \@twocolLTRfootfmt{#1}%
12385 \color@endgroup}%
12386 \m@mmf@prepare}
12387 \newcommand{\@mpTwoCollTRfootnotetext}[1]{%
12388 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12389 \global\setbox\@mpfootinsv@l\vbox{%
12390 \unvbox\@mpfootinsv@l
12391 \@RTLfalse
12392 \def\baselinestretch{\m@m@footnote@spacing}%
12393 \reset@font\LTRfoottextfont
12394 \hsize\columnwidth \@parboxrestore
12395 \protected@edef\@currentlabel{%
12396 \csname p@mpfootnote\endcsname\@thefnmark}%
12397 \color@begingroup
12398 \@twocolLTRfootfmt{#1}%
12399 \color@endgroup}%
12400 \m@mmf@prepare}
12401 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12402 \global\setbox\@mpfootinsv@r\vbox{%
12403 \unvbox\@mpfootinsv@r
12404 \@RTLtrue
12405 \def\baselinestretch{\m@m@footnote@spacing}%
12406 \reset@font\RTLfoottextfont
12407 \hsize\columnwidth \@parboxrestore
12408 \protected@edef\@currentlabel{%
12409 \csname p@mpfootnote\endcsname\@thefnmark}%
12410 \color@begingroup
12411 \@twocolRTLfootfmt{#1}%
12412 \color@endgroup}%
12413 \m@mmf@prepare}
12414 \newcommand{\@mpTwoColRTLfootnotetext}[1]{%
12415 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12416 \global\setbox\@mpfootinsv@r\vbox{%
12417 \unvbox\@mpfootinsv@r
12418 \@RTLtrue
12419 \def\baselinestretch{\m@m@footnote@spacing}%
12420 \reset@font\RTLfoottextfont
12421 \hsize\columnwidth \@parboxrestore
12422 \protected@edef\@currentlabel{%
12423 \csname p@mpfootnote\endcsname\@thefnmark}%
12424 \color@begingroup
12425 \@twocolRTLfootfmt{#1}%
12426 \color@endgroup}%
12427 \m@mmf@prepare}
12428 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12429 \@namedef{@twocol@footgroup#1}{%
12430 \def\baselinestretch{\m@m@footnote@spacing}%
12431 \hsize\bidi@columnwidth
12432 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12433 \m@r@rigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12434 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12435 \@namedef{@twocol@LTRfootgroup#1}{%

```





```

12436 \def\baselinestretch{\m@m@footnote@spacing}%
12437 \hsize\bidicolumnwidth
12438 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12439 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}
12440 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12441 \@namedef{@mptwocol@footgroup#1}{%
12442 \def\baselinestretch{\m@m@footnote@spacing}%
12443 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12444 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{\tw@}{\splittopskip}}}}
12445 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%
12446 \@namedef{@mptwocol@LTRfootgroup#1}{%
12447 \def\baselinestretch{\m@m@footnote@spacing}%
12448 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12449 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{\tw@}{\splittopskip}}}}
12450 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12451 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12452 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12453 \@bidi@before@Hy@hyperfootnotes
12454 \let\@footnotetext\@threecolfootnotetext
12455 \let\@LTRfootnotetext\@threecolLTRfootnotetext
12456 \let\@RTLfootnotetext\@threecolRTLfootnotetext
12457 \dimen\footinsv@r=3\footinsdim
12458 \count\footinsv@r=333\relax
12459 \m@make@threecol@footgroup{v@r}%
12460 \let\@footgroupv@r\@threecol@footgroupv@r
12461 \dimen\footinsv@l=3\footinsdim
12462 \count\footinsv@l=333\relax
12463 \bidi@make@threecol@LTRfootgroup{v@l}%
12464 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12465 \let\@mpfootnotetext\@mpthreecolfootnotetext
12466 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12467 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12468 \@bidi@after@Hy@hyperfootnotes
12469 \m@make@mpthreecol@footgroup{v@r}%
12470 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12471 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12472 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12473 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12474 }
12475 \newcommand{\ThreeColumnFootnotes}{%
12476 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12477 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12478 \@bidi@before@Hy@hyperfootnotes
12479 \let\@footnotetext\@ThreeColfootnotetext
12480 \let\@LTRfootnotetext\@ThreeColLTRfootnotetext
12481 \let\@RTLfootnotetext\@ThreeColRTLfootnotetext
12482 \dimen\footinsv@r=3\footinsdim
12483 \count\footinsv@r=333\relax
12484 \m@make@threecol@footgroup{v@r}%
12485 \let\@footgroupv@r\@threecol@footgroupv@r
12486 \dimen\footinsv@l=3\footinsdim
12487 \count\footinsv@l=333\relax
12488 \bidi@make@threecol@LTRfootgroup{v@l}%
12489 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l

```



```

12490 \let\@mpfootnotetext\@mpThreeColfootnotetext
12491 \let\@mpLTRfootnotetext\@mpThreeColLTRfootnotetext
12492 \let\@mpRTLfootnotetext\@mpThreeColRTLfootnotetext
12493 \@bidi@after@Hy@hyperfootnotes
12494 \m@make@mpthreecol@footgroup{v@r}%
12495 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12496 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12497 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12498 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12499 }
12500 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12501 \ifRTL@footnote
12502 \footinsv@r
12503 \else
12504 \footinsv@l
12505 \fi
12506 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12507 \def\baselinestretch{\m@footnote@spacing}%
12508 \reset@font\foottextfont
12509 \@preamfntext
12510 \protected@edef\@currentlabel{%
12511 \csname p@footnote\endcsname\@thefnmark}%
12512 \color@begingroup
12513 \@threecolfootfmt{#1}%
12514 \color@endgroup}\m@mmf@prepare}
12515 \newcommand{\@ThreeColfootnotetext}[1]{%
12516 \bidi@step@absolute@footnote@count
12517 \ifRTL@footnote
12518 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12519 \else
12520 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12521 \fi
12522 \global\setbox
12523 \ifRTL@footnote
12524 \footinsv@r
12525 \else
12526 \footinsv@l
12527 \fi
12528 \vbox{%
12529 \unvbox
12530 \ifRTL@footnote
12531 \footinsv@r
12532 \else
12533 \footinsv@l
12534 \fi
12535 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
12536 \def\baselinestretch{\m@footnote@spacing}%
12537 \reset@font\foottextfont
12538 \@preamfntext
12539 \protected@edef\@currentlabel{%
12540 \csname p@footnote\endcsname\@thefnmark}%
12541 \color@begingroup
12542 \@threecolfootfmt{#1}%
12543 \color@endgroup}\m@mmf@prepare

```



```

12544 \if@RTL@footnote
12545   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12546 \else
12547   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12548 \fi
12549 }
12550 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12551 \def\baselinestretch{\m@m@footnote@spacing}%
12552 \reset@font\LTRfoottextfont
12553 \@preamfntext
12554 \protected@edef\@currentlabel{%
12555   \csname p@footnote\endcsname\@thefnmark}%
12556 \color@begingroup
12557   \@threecolLTRfootfmt{#1}%
12558 \color@endgroup}\m@mmf@prepare}
12559 \newcommand{\@ThreeColLTRfootnotetext}[1]{%
12560 \bidi@step@absolute@footnote@count
12561 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12562 \global\setbox\footinsv@l\vbox{%
12563 \unvbox\footinsv@l
12564 \@RTLfalse
12565 \def\baselinestretch{\m@m@footnote@spacing}%
12566 \reset@font\LTRfoottextfont
12567 \@preamfntext
12568 \protected@edef\@currentlabel{%
12569   \csname p@footnote\endcsname\@thefnmark}%
12570 \color@begingroup
12571   \@threecolLTRfootfmt{#1}%
12572 \color@endgroup}\m@mmf@prepare
12573 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12574 }
12575 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12576 \def\baselinestretch{\m@m@footnote@spacing}%
12577 \reset@font\RTLfoottextfont
12578 \@preamfntext
12579 \protected@edef\@currentlabel{%
12580   \csname p@footnote\endcsname\@thefnmark}%
12581 \color@begingroup
12582   \@threecolRTLfootfmt{#1}%
12583 \color@endgroup}\m@mmf@prepare}
12584 \newcommand{\@ThreeColRTLfootnotetext}[1]{%
12585 \bidi@step@absolute@footnote@count
12586 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12587 \global\setbox\footinsv@r\vbox{%
12588 \unvbox\footinsv@r
12589 \@RTLtrue
12590 \def\baselinestretch{\m@m@footnote@spacing}%
12591 \reset@font\RTLfoottextfont
12592 \@preamfntext
12593 \protected@edef\@currentlabel{%
12594   \csname p@footnote\endcsname\@thefnmark}%
12595 \color@begingroup
12596   \@threecolRTLfootfmt{#1}%
12597 \color@endgroup}\m@mmf@prepare

```



```

12598 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12599 }
12600 \bidi@ensure@newcommand{\@preamthreefmt}{%
12601   \hsize .3\hsize
12602   \parindent=\z@
12603   \tolerance=5000\relax
12604   \leavevmode}
12605 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12606   \@preamthreefmt
12607   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12608 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12609   \@preamthreefmt
12610   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12611 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12612   \@preamthreefmt
12613   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12614 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12615   \global\setbox
12616     \if@RTL@footnote
12617     \@mpfootinsv@r
12618   \else
12619     \@mpfootinsv@l
12620   \fi
12621   \vbox{%
12622     \unvbox
12623     \if@RTL@footnote
12624     \@mpfootinsv@r
12625   \else
12626     \@mpfootinsv@l
12627   \fi
12628   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12629   \def\baselinestretch{\m@m@footnote@spacing}%
12630   \reset@font\foottextfont
12631   \hsize\columnwidth \@parboxrestore
12632   \protected@edef\@currentlabel{%
12633     \csname p@mpfootnote\endcsname\@thefnmark}%
12634   \color@begingroup
12635     \@threecolfootfmt{#1}%
12636   \color@endgroup}\m@mmf@prepare}
12637 \newcommand{\@mpThreeColfootnotetext}[1]{%
12638   \if@RTL@footnote
12639     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12640   \else
12641     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12642   \fi
12643   \global\setbox
12644     \if@RTL@footnote
12645     \@mpfootinsv@r
12646   \else
12647     \@mpfootinsv@l
12648   \fi
12649   \vbox{%
12650     \unvbox
12651     \if@RTL@footnote

```



```

12652 \mpfootinsv@r
12653 \else
12654 \mpfootinsv@l
12655 \fi
12656 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12657 \def\baselinestretch{\m@m@footnote@spacing}%
12658 \reset@font\foottextfont
12659 \hsize\columnwidth \@parboxrestore
12660 \protected@edef\@currentlabel{%
12661 \csname p@mpfootnote\endcsname\@thefnmark}%
12662 \color@begingroup
12663 \@threecolfootfmt{#1}%
12664 \color@endgroup}\m@mmf@prepare}
12665 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12666 \global\setbox\@mpfootinsv@l\vbox{%
12667 \unvbox\@mpfootinsv@l
12668 \@RTLfalse
12669 \def\baselinestretch{\m@m@footnote@spacing}%
12670 \reset@font\LTRfoottextfont
12671 \hsize\columnwidth \@parboxrestore
12672 \protected@edef\@currentlabel{%
12673 \csname p@mpfootnote\endcsname\@thefnmark}%
12674 \color@begingroup
12675 \@threecolLTRfootfmt{#1}%
12676 \color@endgroup}\m@mmf@prepare}
12677 \newcommand{\@mpThreeColLTRfootnotetext}[1]{%
12678 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12679 \global\setbox\@mpfootinsv@l\vbox{%
12680 \unvbox\@mpfootinsv@l
12681 \@RTLfalse
12682 \def\baselinestretch{\m@m@footnote@spacing}%
12683 \reset@font\LTRfoottextfont
12684 \hsize\columnwidth \@parboxrestore
12685 \protected@edef\@currentlabel{%
12686 \csname p@mpfootnote\endcsname\@thefnmark}%
12687 \color@begingroup
12688 \@threecolLTRfootfmt{#1}%
12689 \color@endgroup}\m@mmf@prepare}
12690 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12691 \global\setbox\@mpfootinsv@r\vbox{%
12692 \unvbox\@mpfootinsv@r
12693 \@RTLtrue
12694 \def\baselinestretch{\m@m@footnote@spacing}%
12695 \reset@font\RTLfoottextfont
12696 \hsize\columnwidth \@parboxrestore
12697 \protected@edef\@currentlabel{%
12698 \csname p@mpfootnote\endcsname\@thefnmark}%
12699 \color@begingroup
12700 \@threecolRTLfootfmt{#1}%
12701 \color@endgroup}\m@mmf@prepare}
12702 \newcommand{\@mpThreeColRTLfootnotetext}[1]{%
12703 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12704 \global\setbox\@mpfootinsv@r\vbox{%
12705 \unvbox\@mpfootinsv@r

```



```

12706 \RTLtrue
12707 \def\baselinestretch{\m@m@footnote@spacing}%
12708 \reset@font\RTLfoottextfont
12709 \hsize\columnwidth \@parboxrestore
12710 \protected@edef\@currentlabel{%
12711 \csname p@mpfootnote\endcsname\@thefnmark}%
12712 \color@begingroup
12713 \@threecolRTLfootfmt{#1}%
12714 \color@endgroup}\m@mmf@prepare}
12715 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12716 \@namedef{@threecol@footgroup#1}{%
12717 \def\baselinestretch{\m@m@footnote@spacing}%
12718 \hsize\bidi@columnwidth
12719 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12720 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12721 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12722 \@namedef{@threecol@LTRfootgroup#1}{%
12723 \def\baselinestretch{\m@m@footnote@spacing}%
12724 \hsize\bidi@columnwidth
12725 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12726 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12727 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12728 \@namedef{@mpthreecol@footgroup#1}{%
12729 \def\baselinestretch{\m@m@footnote@spacing}%
12730 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12731 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
12732 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12733 \@namedef{@mpthreecol@LTRfootgroup#1}{%
12734 \def\baselinestretch{\m@m@footnote@spacing}%
12735 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12736 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
12737 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12738 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12739 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12740 \@bidi@before@Hy@hyperfootnotes
12741 \let\@footnotetext\@fourcolfootnotetext
12742 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12743 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12744 \dimen\footinsv@r=4\footinsdim
12745 \count\footinsv@r=250\relax
12746 \m@make@fourcol@footgroup{v@r}%
12747 \let\@footgroupv@r\@fourcol@footgroupv@r
12748 \dimen\footinsv@l=4\footinsdim
12749 \count\footinsv@l=250\relax
12750 \bidi@make@fourcol@LTRfootgroup{v@l}%
12751 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12752 \let\@mpfootnotetext\@mpfourcolfootnotetext
12753 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12754 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12755 \@bidi@after@Hy@hyperfootnotes
12756 \m@make@mpfourcol@footgroup{v@r}%
12757 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12758 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12759 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l

```



```

12760 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
12761 }
12762 \newcommand{\FourColumnFootnotes}{%
12763   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12764   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12765   \@bidi@before@Hy@hyperfootnotes
12766   \let\@footnotetext\@FourColfootnotetext
12767   \let\@LTRfootnotetext\@FourColLTRfootnotetext
12768   \let\@RTLfootnotetext\@FourColRTLfootnotetext
12769   \dimen\footinsv@r=4\footinsdim
12770   \count\footinsv@r=250\relax
12771   \m@make@fourcol@footgroup{v@r}%
12772   \let\@footgroupv@r\@fourcol@footgroupv@r
12773   \dimen\footinsv@l=4\footinsdim
12774   \count\footinsv@l=250\relax
12775   \bidi@make@fourcol@LTRfootgroup{v@l}%
12776   \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12777   \let\@mpfootnotetext\@mpFourColfootnotetext
12778   \let\@mpLTRfootnotetext\@mpFourColLTRfootnotetext
12779   \let\@mpRTLfootnotetext\@mpFourColRTLfootnotetext
12780   \@bidi@after@Hy@hyperfootnotes
12781   \m@make@mpfourcol@footgroup{v@r}%
12782   \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12783   \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12784   \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12785   \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
12786 }
12787 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12788   \if@RTL@footnote
12789     \footinsv@r
12790   \else
12791     \footinsv@l
12792   \fi
12793 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12794   \def\baselinestretch{\m@footnote@spacing}%
12795   \reset@font\foottextfont
12796   \@preamfntext
12797   \protected@edef\@currentlabel{%
12798     \csname p@footnote\endcsname\@thefnmark}%
12799   \color@begingroup
12800     \@fourcolfootfmt{#1}%
12801   \color@endgroup}%
12802   \m@mmf@prepare}
12803 \newcommand{\@FourColfootnotetext}[1]{%
12804   \bidi@step@absolute@footnote@count
12805   \if@RTL@footnote
12806     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12807   \else
12808     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12809   \fi
12810   \global\setbox
12811   \if@RTL@footnote
12812     \footinsv@r
12813   \else

```



```

12814 \footinsv@l
12815 \fi
12816 \vbox{%
12817 \unvbox
12818 \if@RTL@footnote
12819 \footinsv@r
12820 \else
12821 \footinsv@l
12822 \fi
12823 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12824 \def\baselinestretch{\m@m@footnote@spacing}%
12825 \reset@font\foottextfont
12826 \@preamfntext
12827 \protected@edef\@currentlabel{%
12828 \csname p@footnote\endcsname\@thefnmark}%
12829 \color@begingroup
12830 \@fourcolfootfmt{#1}%
12831 \color@endgroup}%
12832 \m@m@mmf@prepare
12833 \if@RTL@footnote
12834 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12835 \else
12836 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12837 \fi
12838 }
12839 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12840 \def\baselinestretch{\m@m@footnote@spacing}%
12841 \reset@font\LTRfoottextfont
12842 \@preamfntext
12843 \protected@edef\@currentlabel{%
12844 \csname p@footnote\endcsname\@thefnmark}%
12845 \color@begingroup
12846 \@fourcolLTRfootfmt{#1}%
12847 \color@endgroup}%
12848 \m@m@mmf@prepare}
12849 \newcommand{\@FourColLTRfootnotetext}[1]{%
12850 \bidi@step@absolutefootnote@count
12851 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12852 \global\setbox\footinsv@l\vbox{%
12853 \unvbox\footinsv@l
12854 \@RTLfalse%
12855 \def\baselinestretch{\m@m@footnote@spacing}%
12856 \reset@font\LTRfoottextfont
12857 \@preamfntext
12858 \protected@edef\@currentlabel{%
12859 \csname p@footnote\endcsname\@thefnmark}%
12860 \color@begingroup
12861 \@fourcolLTRfootfmt{#1}%
12862 \color@endgroup}%
12863 \m@m@mmf@prepare
12864 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12865 }
12866 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12867 \def\baselinestretch{\m@m@footnote@spacing}%

```





```

12868 \reset@font\RTLfoottextfont
12869 \@preamfntext
12870 \protected@edef\@currentlabel{%
12871   \csname p@footnote\endcsname\@thefnmark}%
12872 \color@begingroup
12873   \@fourcolRTLfootfmt{#1}%
12874 \color@endgroup}%
12875 \m@mmf@prepare}
12876 \newcommand{\@FourColRTLfootnotetext}[1]{%
12877   \bidi@step@absolutefootnote@count
12878   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12879   \global\setbox\footinsv@r\vbox{%
12880     \unvbox\footinsv@r
12881     \@RTLtrue
12882     \def\baselinestretch{\m@m@footnote@spacing}%
12883     \reset@font\RTLfoottextfont
12884     \@preamfntext
12885     \protected@edef\@currentlabel{%
12886       \csname p@footnote\endcsname\@thefnmark}%
12887     \color@begingroup
12888       \@fourcolRTLfootfmt{#1}%
12889     \color@endgroup}%
12890     \m@mmf@prepare
12891     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12892 }
12893 \bidi@ensure@newcommand{\@preamfourfmt}{%
12894   \hspace{.25\hspace}
12895   \parindent=\z@
12896   \tolerance=5000\relax
12897   \leavevmode}
12898 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12899   \@preamfourfmt
12900   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12901 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12902   \@preamfourfmt
12903   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12904 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12905   \@preamfourfmt
12906   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12907 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12908   \global\setbox
12909     \if@RTL@footnote
12910     \@mpfootinsv@r
12911   \else
12912     \@mpfootinsv@l
12913   \fi
12914   \vbox{%
12915     \unvbox
12916     \if@RTL@footnote
12917     \@mpfootinsv@r
12918   \else
12919     \@mpfootinsv@l
12920   \fi
12921   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi

```



```

12922 \def\baselinestretch{\m@m@footnote@spacing}%
12923 \reset@font\foottextfont
12924 \hsize\columnwidth \@parboxrestore
12925 \protected@edef\@currentlabel{%
12926 \csname p@mpfootnote\endcsname\@thefnmark}%
12927 \color@begingroup
12928 \@fourcolfootfmt{#1}%
12929 \color@endgroup}%
12930 \m@mmf@prepare}
12931 \newcommand{\@mpFourColfootnotetext}[1]{%
12932 \if@RTL@footnote
12933 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12934 \else
12935 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12936 \fi
12937 \global\setbox
12938 \if@RTL@footnote
12939 \@mpfootinsv@r
12940 \else
12941 \@mpfootinsv@l
12942 \fi
12943 \vbox{%
12944 \unvbox
12945 \if@RTL@footnote
12946 \@mpfootinsv@r
12947 \else
12948 \@mpfootinsv@l
12949 \fi
12950 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12951 \def\baselinestretch{\m@m@footnote@spacing}%
12952 \reset@font\foottextfont
12953 \hsize\columnwidth \@parboxrestore
12954 \protected@edef\@currentlabel{%
12955 \csname p@mpfootnote\endcsname\@thefnmark}%
12956 \color@begingroup
12957 \@fourcolfootfmt{#1}%
12958 \color@endgroup}%
12959 \m@mmf@prepare}
12960 \bidi@ensure@newcommand{\@mpfourcollTRfootnotetext}[1]{%
12961 \global\setbox\@mpfootinsv@l\vbox{%
12962 \unvbox\@mpfootinsv@l
12963 \@RTLfalse
12964 \def\baselinestretch{\m@m@footnote@spacing}%
12965 \reset@font\LTRfoottextfont
12966 \hsize\columnwidth \@parboxrestore
12967 \protected@edef\@currentlabel{%
12968 \csname p@mpfootnote\endcsname\@thefnmark}%
12969 \color@begingroup
12970 \@fourcollTRfootfmt{#1}%
12971 \color@endgroup}%
12972 \m@mmf@prepare}
12973 \newcommand{\@mpFourCollTRfootnotetext}[1]{%
12974 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12975 \global\setbox\@mpfootinsv@l\vbox{%

```



```

12976 \unvbox\@mpfootinsv@l
12977 \@RTLfalse
12978 \def\baselinestretch{\m@m@footnote@spacing}%
12979 \reset@font\LTRfoottextfont
12980 \hsize\columnwidth \@parboxrestore
12981 \protected@edef\@currentlabel{%
12982 \csname p@mpfootnote\endcsname\@thefnmark}%
12983 \color@begingroup
12984 \@fourcolLTRfootfmt{#1}%
12985 \color@endgroup}%
12986 \m@mmf@prepare}
12987 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
12988 \global\setbox\@mpfootinsv@r\vbox{%
12989 \unvbox\@mpfootinsv@r
12990 \@RTLtrue
12991 \def\baselinestretch{\m@m@footnote@spacing}%
12992 \reset@font\RTLfoottextfont
12993 \hsize\columnwidth \@parboxrestore
12994 \protected@edef\@currentlabel{%
12995 \csname p@mpfootnote\endcsname\@thefnmark}%
12996 \color@begingroup
12997 \@fourcolRTLfootfmt{#1}%
12998 \color@endgroup}%
12999 \m@mmf@prepare}
13000 \newcommand{\@mpFourColRTLfootnotetext}[1]{%
13001 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13002 \global\setbox\@mpfootinsv@r\vbox{%
13003 \unvbox\@mpfootinsv@r
13004 \@RTLtrue
13005 \def\baselinestretch{\m@m@footnote@spacing}%
13006 \reset@font\RTLfoottextfont
13007 \hsize\columnwidth \@parboxrestore
13008 \protected@edef\@currentlabel{%
13009 \csname p@mpfootnote\endcsname\@thefnmark}%
13010 \color@begingroup
13011 \@fourcolRTLfootfmt{#1}%
13012 \color@endgroup}%
13013 \m@mmf@prepare}
13014 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
13015 \@namedef{\@fourcol@footgroup#1}{%
13016 \def\baselinestretch{\m@m@footnote@spacing}%
13017 \hsize\bidi@columnwidth
13018 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13019 \m@mrigidbodybalance{\@nameuse{footins#1}}{4}{\splittopskip}}}%
13020 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
13021 \@namedef{\@fourcol@LTRfootgroup#1}{%
13022 \def\baselinestretch{\m@m@footnote@spacing}%
13023 \hsize\bidi@columnwidth
13024 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13025 \bidi@LTRigidbodybalance{\@nameuse{footins#1}}{4}{\splittopskip}}}%
13026 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
13027 \@namedef{\@mpfourcol@footgroup#1}{%
13028 \def\baselinestretch{\m@m@footnote@spacing}%
13029 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox

```



```

13030 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}
13031 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
13032 \@namedef{\@mpfourcol@LTRfootgroup#1}{%
13033 \def\baselinestretch{\m@mf@footnote@spacing}%
13034 \@nameuse{\foottextfont#1} \splittopskip=\ht\strutbox
13035 \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}}
13036 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
13037 \@namedef{\foottextfontv@r}{\foottextfont}% % [RS]
13038 \@namedef{\foottextfontv@l}{\LTRfoottextfont}%
13039 \@bidi@before@Hy@hyperfootnotes
13040 \let\@footnotetext\@fivecolfootnotetext
13041 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
13042 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
13043 \dimen\footinsv@r=5\footinsdim
13044 \count\footinsv@r=200\relax
13045 \m@make@fivecol@footgroup{v@r}%
13046 \let\@footgroupv@r\@fivecol@footgroupv@r
13047 \dimen\footinsv@l=5\footinsdim
13048 \count\footinsv@l=200\relax
13049 \bidi@make@fivecol@LTRfootgroup{v@l}%
13050 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13051 \let\@mpfootnotetext\@mpfivecolfootnotetext
13052 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
13053 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
13054 \@bidi@after@Hy@hyperfootnotes
13055 \m@make@mpfivecol@footgroup{v@r}%
13056 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13057 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13058 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13059 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13060 }
13061 \newcommand{\FiveColumnFootnotes}{%
13062 \@namedef{\foottextfontv@r}{\foottextfont}% % [RS]
13063 \@namedef{\foottextfontv@l}{\LTRfoottextfont}%
13064 \@bidi@before@Hy@hyperfootnotes
13065 \let\@footnotetext\@FiveColfootnotetext
13066 \let\@LTRfootnotetext\@FiveColLTRfootnotetext
13067 \let\@RTLfootnotetext\@FiveColRTLfootnotetext
13068 \dimen\footinsv@r=5\footinsdim
13069 \count\footinsv@r=200\relax
13070 \m@make@fivecol@footgroup{v@r}%
13071 \let\@footgroupv@r\@fivecol@footgroupv@r
13072 \dimen\footinsv@l=5\footinsdim
13073 \count\footinsv@l=200\relax
13074 \bidi@make@fivecol@LTRfootgroup{v@l}%
13075 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13076 \let\@mpfootnotetext\@mpFiveColfootnotetext
13077 \let\@mpLTRfootnotetext\@mpFiveColLTRfootnotetext
13078 \let\@mpRTLfootnotetext\@mpFiveColRTLfootnotetext
13079 \@bidi@after@Hy@hyperfootnotes
13080 \m@make@mpfivecol@footgroup{v@r}%
13081 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13082 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13083 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l

```



```

13084 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
13085 }
13086 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
13087 \if@RTL@footnote
13088 \footinsv@r
13089 \else
13090 \footinsv@l
13091 \fi
13092 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13093 \def\baselinestretch{\m@m@footnote@spacing}%
13094 \reset@font\foottextfont
13095 \@preamfntext
13096 \protected@edef\@currentlabel{%
13097 \csname p@footnote\endcsname\@thefnmark}%
13098 \color@begingroup
13099 \@fivecolfootfmt{#1}%
13100 \color@endgroup}%
13101 \m@m@mmf@prepare}
13102 \newcommand{\@FiveColfootnotetext}[1]{%
13103 \bidi@step@absolute@footnote@count
13104 \if@RTL@footnote
13105 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13106 \else
13107 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13108 \fi
13109 \global\setbox
13110 \if@RTL@footnote
13111 \footinsv@r
13112 \else
13113 \footinsv@l
13114 \fi
13115 \vbox{%
13116 \unvbox
13117 \if@RTL@footnote
13118 \footinsv@r
13119 \else
13120 \footinsv@l
13121 \fi
13122 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13123 \def\baselinestretch{\m@m@footnote@spacing}%
13124 \reset@font\foottextfont
13125 \@preamfntext
13126 \protected@edef\@currentlabel{%
13127 \csname p@footnote\endcsname\@thefnmark}%
13128 \color@begingroup
13129 \@fivecolfootfmt{#1}%
13130 \color@endgroup}%
13131 \m@m@mmf@prepare
13132 \if@RTL@footnote
13133 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13134 \else
13135 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13136 \fi
13137 }

```



```

13138 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13139 \def\baselinestretch{\m@m@footnote@spacing}%
13140 \reset@font\LTRfoottextfont
13141 \@preamfntext
13142 \protected@edef\@currentlabel{%
13143 \csname p@footnote\endcsname\@thefnmark}%
13144 \color@begingroup
13145 \@fivecolLTRfootfmt{#1}%
13146 \color@endgroup}%
13147 \m@m@mmf@prepare}
13148 \newcommand{\@FiveColLTRfootnotetext}[1]{%
13149 \bidi@step@absolutefootnote@count
13150 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13151 \global\setbox\footinsv@l\vbox{%
13152 \unvbox\footinsv@l
13153 \@RTLfalse
13154 \def\baselinestretch{\m@m@footnote@spacing}%
13155 \reset@font\LTRfoottextfont
13156 \@preamfntext
13157 \protected@edef\@currentlabel{%
13158 \csname p@footnote\endcsname\@thefnmark}%
13159 \color@begingroup
13160 \@fivecolLTRfootfmt{#1}%
13161 \color@endgroup}%
13162 \m@m@mmf@prepare
13163 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13164 }
13165 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13166 \def\baselinestretch{\m@m@footnote@spacing}%
13167 \reset@font\RTLfoottextfont
13168 \@preamfntext
13169 \protected@edef\@currentlabel{%
13170 \csname p@footnote\endcsname\@thefnmark}%
13171 \color@begingroup
13172 \@fivecolRTLfootfmt{#1}%
13173 \color@endgroup}%
13174 \m@m@mmf@prepare}
13175 \newcommand{\@FiveColRTLfootnotetext}[1]{%
13176 \bidi@step@absolutefootnote@count
13177 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13178 \global\setbox\footinsv@r\vbox{%
13179 \unvbox\footinsv@r
13180 \@RTLtrue
13181 \def\baselinestretch{\m@m@footnote@spacing}%
13182 \reset@font\RTLfoottextfont
13183 \@preamfntext
13184 \protected@edef\@currentlabel{%
13185 \csname p@footnote\endcsname\@thefnmark}%
13186 \color@begingroup
13187 \@fivecolRTLfootfmt{#1}%
13188 \color@endgroup}%
13189 \m@m@mmf@prepare
13190 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13191 }

```



```

13192 \bidi@ensure@newcommand{\@preamfivefmt}{%
13193   \hsize .2\hsize
13194   \parindent=\z@
13195   \tolerance=5000\relax
13196   \leavevmode}
13197 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
13198   \@preamfivefmt
13199   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13200 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
13201   \@preamfivefmt
13202   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13203 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
13204   \@preamfivefmt
13205   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13206 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
13207   \global\setbox
13208     \if@RTL@footnote
13209     \@mpfootinsv@r
13210   \else
13211     \@mpfootinsv@l
13212   \fi
13213   \vbox{%
13214     \unvbox
13215     \if@RTL@footnote
13216     \@mpfootinsv@r
13217   \else
13218     \@mpfootinsv@l
13219   \fi
13220   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13221   \def\baselinestretch{\m@m@footnote@spacing}%
13222   \reset@font\foottextfont
13223   \hsize\columnwidth \@parboxrestore
13224   \protected@edef\@currentlabel{%
13225     \csname p@mpfootnote\endcsname\@thefnmark}%
13226   \color@begingroup
13227     \@fivecolfootfmt{#1}%
13228   \color@endgroup}%
13229   \m@mmf@prepare}
13230 \newcommand{\@mpFiveColfootnotetext}[1]{%
13231   \if@RTL@footnote
13232     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13233   \else
13234     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13235   \fi
13236   \global\setbox
13237     \if@RTL@footnote
13238     \@mpfootinsv@r
13239   \else
13240     \@mpfootinsv@l
13241   \fi
13242   \vbox{%
13243     \unvbox
13244     \if@RTL@footnote
13245     \@mpfootinsv@r

```



```

13246 \else
13247 \mpfootinsv@l
13248 \fi
13249 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13250 \def\baselinestretch{\m@m@footnote@spacing}%
13251 \reset@font\foottextfont
13252 \hsize\columnwidth \@parboxrestore
13253 \protected@edef\@currentlabel{%
13254 \csname p@mpfootnote\endcsname\@thefnmark}%
13255 \color@begingroup
13256 \@fivecolfootfmt{#1}%
13257 \color@endgroup}%
13258 \m@m@mmf@prepare}
13259 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
13260 \global\setbox\@mpfootinsv@l\vbox{%
13261 \unvbox\@mpfootinsv@l
13262 \@RTLfalse
13263 \def\baselinestretch{\m@m@footnote@spacing}%
13264 \reset@font\LTRfoottextfont
13265 \hsize\columnwidth \@parboxrestore
13266 \protected@edef\@currentlabel{%
13267 \csname p@mpfootnote\endcsname\@thefnmark}%
13268 \color@begingroup
13269 \@fivecolLTRfootfmt{#1}%
13270 \color@endgroup}%
13271 \m@m@mmf@prepare}
13272 \newcommand{\@mpFiveColLTRfootnotetext}[1]{%
13273 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13274 \global\setbox\@mpfootinsv@l\vbox{%
13275 \unvbox\@mpfootinsv@l
13276 \@RTLfalse
13277 \def\baselinestretch{\m@m@footnote@spacing}%
13278 \reset@font\LTRfoottextfont
13279 \hsize\columnwidth \@parboxrestore
13280 \protected@edef\@currentlabel{%
13281 \csname p@mpfootnote\endcsname\@thefnmark}%
13282 \color@begingroup
13283 \@fivecolLTRfootfmt{#1}%
13284 \color@endgroup}%
13285 \m@m@mmf@prepare}
13286 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
13287 \global\setbox\@mpfootinsv@r\vbox{%
13288 \unvbox\@mpfootinsv@r
13289 \@RTLtrue
13290 \def\baselinestretch{\m@m@footnote@spacing}%
13291 \reset@font\RTLfoottextfont
13292 \hsize\columnwidth \@parboxrestore
13293 \protected@edef\@currentlabel{%
13294 \csname p@mpfootnote\endcsname\@thefnmark}%
13295 \color@begingroup
13296 \@fivecolRTLfootfmt{#1}%
13297 \color@endgroup}%
13298 \m@m@mmf@prepare}
13299 \newcommand{\@mpFiveColRTLfootnotetext}[1]{%

```





```

13300 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13301 \global\setbox\@mpfootinsv@r\vbox{%
13302   \unvbox\@mpfootinsv@r
13303   \@RTLtrue
13304   \def\baselinestretch{\m@m@footnote@spacing}%
13305   \reset@font\RTLfoottextfont
13306   \hsize\columnwidth \@parboxrestore
13307   \protected@edef\@currentlabel{%
13308     \csname p@mpfootnote\endcsname\@thefnmark}%
13309   \color@begingroup
13310     \@fivecolRTLfootfmt{#1}%
13311   \color@endgroup}%
13312   \m@m@f@prepare}
13313 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
13314   \@namedef{@fivecol@footgroup#1}{%
13315     \def\baselinestretch{\m@m@footnote@spacing}%
13316     \hsize\bidi@columnwidth
13317     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13318     \m@m@rigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}%
13319 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
13320   \@namedef{@fivecol@LTRfootgroup#1}{%
13321     \def\baselinestretch{\m@m@footnote@spacing}%
13322     \hsize\bidi@columnwidth
13323     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13324     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}%
13325 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
13326   \@namedef{@mpfivecol@footgroup#1}{%
13327     \def\baselinestretch{\m@m@footnote@spacing}%
13328     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13329     \m@m@rigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}%
13330 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
13331   \@namedef{@mpfivecol@LTRfootgroup#1}{%
13332     \def\baselinestretch{\m@m@footnote@spacing}%
13333     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13334     \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}%
13335 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
13336   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13337   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13338   \@bidi@before@Hy@hyperfootnotes
13339   \let\@footnotetext\@sixcolfootnotetext
13340   \let\@LTRfootnotetext\@sixcolLTRfootnotetext
13341   \let\@RTLfootnotetext\@sixcolRTLfootnotetext
13342   \dimen\footinsv@r=6\footinsdim
13343   \count\footinsv@r=166\relax
13344   \m@make@sixcol@footgroup{v@r}%
13345   \let\@footgroupv@r\@sixcol@footgroupv@r
13346   \dimen\footinsv@l=6\footinsdim
13347   \count\footinsv@l=166\relax
13348   \bidi@make@sixcol@LTRfootgroup{v@l}%
13349   \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
13350   \let\@mpfootnotetext\@mpsixcolfootnotetext
13351   \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
13352   \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
13353   \@bidi@after@Hy@hyperfootnotes

```



```

13354 \m@make@mpsixcol@footgroup{v@r}%
13355 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
13356 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
13357 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
13358 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13359 }
13360 \newcommand{\SixColumnFootnotes}{%
13361 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13362 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13363 \@bidi@before@Hy@hyperfootnotes
13364 \let\@footnotetext\@SixColfootnotetext
13365 \let\@LTRfootnotetext\@SixColLTRfootnotetext
13366 \let\@RTLfootnotetext\@SixColRTLfootnotetext
13367 \dimen\footinsv@r=6\footinsdim
13368 \count\footinsv@r=166\relax
13369 \m@make@sixcol@footgroup{v@r}%
13370 \let\@footgroupv@r\@sixcol@footgroupv@r
13371 \dimen\footinsv@l=6\footinsdim
13372 \count\footinsv@l=166\relax
13373 \bidi@make@sixcol@LTRfootgroup{v@l}%
13374 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
13375 \let\@mpfootnotetext\@mpSixColfootnotetext
13376 \let\@mpLTRfootnotetext\@mpSixColLTRfootnotetext
13377 \let\@mpRTLfootnotetext\@mpSixColRTLfootnotetext
13378 \@bidi@after@Hy@hyperfootnotes
13379 \m@make@mpsixcol@footgroup{v@r}%
13380 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
13381 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
13382 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
13383 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13384 }
13385 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
13386 \if@RTL@footnote
13387 \footinsv@r
13388 \else
13389 \footinsv@l
13390 \fi
13391 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13392 \def\baselinestretch{\m@m@footnote@spacing}%
13393 \reset@font\foottextfont
13394 \@preamfntext
13395 \protected@edef\@currentlabel{%
13396 \csname p@footnote\endcsname\@thefnmark}%
13397 \color@begingroup
13398 \@sixcolfootfmt{#1}%
13399 \color@endgroup}%
13400 \m@m@mmf@prepare}
13401 \newcommand{\@SixColfootnotetext}[1]{%
13402 \bidi@step@absolutefootnote@count
13403 \if@RTL@footnote
13404 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13405 \else
13406 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13407 \fi

```



```

13408 \global\setbox
13409 \if@RTL@footnote
13410 \footinsv@r
13411 \else
13412 \footinsv@l
13413 \fi
13414 \vbox{%
13415 \unvbox
13416 \if@RTL@footnote
13417 \footinsv@r
13418 \else
13419 \footinsv@l
13420 \fi
13421 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13422 \def\baselinestretch{\m@m@footnote@spacing}%
13423 \reset@font\foottextfont
13424 \@preamfntext
13425 \protected@edef\@currentlabel{%
13426 \csname p@footnote\endcsname\@thefnmark}%
13427 \color@begingroup
13428 \@sixcolfootfmt{#1}%
13429 \color@endgroup}%
13430 \m@mmf@prepare
13431 \if@RTL@footnote
13432 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13433 \else
13434 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13435 \fi
13436 }
13437 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13438 \def\baselinestretch{\m@m@footnote@spacing}%
13439 \reset@font\LTRfoottextfont
13440 \@preamfntext
13441 \protected@edef\@currentlabel{%
13442 \csname p@footnote\endcsname\@thefnmark}%
13443 \color@begingroup
13444 \@sixcolLTRfootfmt{#1}%
13445 \color@endgroup}%
13446 \m@mmf@prepare}
13447 \newcommand{\@SixColLTRfootnotetext}[1]{%
13448 \bidi@step@absolutefootnote@count
13449 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13450 \global\setbox\footinsv@l\vbox{%
13451 \unvbox\footinsv@l
13452 \@RTLfalse
13453 \def\baselinestretch{\m@m@footnote@spacing}%
13454 \reset@font\LTRfoottextfont
13455 \@preamfntext
13456 \protected@edef\@currentlabel{%
13457 \csname p@footnote\endcsname\@thefnmark}%
13458 \color@begingroup
13459 \@sixcolLTRfootfmt{#1}%
13460 \color@endgroup}%
13461 \m@mmf@prepare

```



```

13462 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13463 }
13464 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13465 \def\baselinestretch{\m@m@footnote@spacing}%
13466 \reset@font\RTLfoottextfont
13467 \@preamfntext
13468 \protected@edef\@currentlabel{%
13469 \csname p@footnote\endcsname\@thefnmark}%
13470 \color@begingroup
13471 \@sixcolRTLfootfmt{#1}%
13472 \color@endgroup}%
13473 \m@m@m@prepare}
13474 \newcommand{\@SixColRTLfootnotetext}[1]{%
13475 \bidi@step@absolutefootnote@count
13476 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13477 \global\setbox\footinsv@r\vbox{%
13478 \unvbox\footinsv@r
13479 \@RTLtrue
13480 \def\baselinestretch{\m@m@footnote@spacing}%
13481 \reset@font\RTLfoottextfont
13482 \@preamfntext
13483 \protected@edef\@currentlabel{%
13484 \csname p@footnote\endcsname\@thefnmark}%
13485 \color@begingroup
13486 \@sixcolRTLfootfmt{#1}%
13487 \color@endgroup}%
13488 \m@m@m@prepare
13489 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13490 }
13491 \bidi@ensure@newcommand{\@preamsixfmt}{%
13492 \hspace{.16\hspace}
13493 \parindent=\z@
13494 \tolerance=5000\relax
13495 \leavevmode}
13496 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
13497 \@preamsixfmt
13498 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13499 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
13500 \@preamsixfmt
13501 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13502 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
13503 \@preamsixfmt
13504 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13505 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
13506 \global\setbox
13507 \if@RTL@footnote
13508 \@mpfootinsv@r
13509 \else
13510 \@mpfootinsv@l
13511 \fi
13512 \vbox{%
13513 \unvbox
13514 \if@RTL@footnote
13515 \@mpfootinsv@r

```



```

13516 \else
13517 \mpfootinsv@l
13518 \fi
13519 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13520 \def\baselinestretch{\m@m@footnote@spacing}%
13521 \reset@font\foottextfont
13522 \hsize\columnwidth \@parboxrestore
13523 \protected@edef\@currentlabel{%
13524 \csname p@mpfootnote\endcsname\@thefnmark}%
13525 \color@begingroup
13526 \@sixcolfootfmt{#1}%
13527 \color@endgroup}%
13528 \m@m@mmf@prepare}
13529 \newcommand{\@mpSixColfootnotetext}[1]{%
13530 \if@RTL@footnote
13531 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13532 \else
13533 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13534 \fi
13535 \global\setbox
13536 \if@RTL@footnote
13537 \@mpfootinsv@r
13538 \else
13539 \@mpfootinsv@l
13540 \fi
13541 \vbox{%
13542 \unvbox
13543 \if@RTL@footnote
13544 \@mpfootinsv@r
13545 \else
13546 \@mpfootinsv@l
13547 \fi
13548 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13549 \def\baselinestretch{\m@m@footnote@spacing}%
13550 \reset@font\foottextfont
13551 \hsize\columnwidth \@parboxrestore
13552 \protected@edef\@currentlabel{%
13553 \csname p@mpfootnote\endcsname\@thefnmark}%
13554 \color@begingroup
13555 \@sixcolfootfmt{#1}%
13556 \color@endgroup}%
13557 \m@m@mmf@prepare}
13558 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{%
13559 \global\setbox\@mpfootinsv@l\vbox{%
13560 \unvbox\@mpfootinsv@l
13561 \@RTLfalse
13562 \def\baselinestretch{\m@m@footnote@spacing}%
13563 \reset@font\LTRfoottextfont
13564 \hsize\columnwidth \@parboxrestore
13565 \protected@edef\@currentlabel{%
13566 \csname p@mpfootnote\endcsname\@thefnmark}%
13567 \color@begingroup
13568 \@sixcolLTRfootfmt{#1}%
13569 \color@endgroup}%

```



```

13570 \m@mmf@prepare}
13571 \newcommand{\@mpSixCollTRfootnotetext}[1]{%
13572 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13573 \global\setbox\@mpfootinsv@l\vbox{%
13574 \unvbox\@mpfootinsv@l
13575 \RTLfalse
13576 \def\baselinestretch{\m@m@footnote@spacing}%
13577 \reset@font\LTRfoottextfont
13578 \hsize\columnwidth \@parboxrestore
13579 \protected@edef\@currentlabel{%
13580 \csname p@mpfootnote\endcsname\@thefnmark}%
13581 \color@begingroup
13582 \@sixcollTRfootfmt{#1}%
13583 \color@endgroup}%
13584 \m@mmf@prepare}
13585 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%
13586 \global\setbox\@mpfootinsv@r\vbox{%
13587 \unvbox\@mpfootinsv@r
13588 \RTLtrue
13589 \def\baselinestretch{\m@m@footnote@spacing}%
13590 \reset@font\RTLfoottextfont
13591 \hsize\columnwidth \@parboxrestore
13592 \protected@edef\@currentlabel{%
13593 \csname p@mpfootnote\endcsname\@thefnmark}%
13594 \color@begingroup
13595 \@sixcolRTLfootfmt{#1}%
13596 \color@endgroup}%
13597 \m@mmf@prepare}
13598 \newcommand{\@mpSixColRTLfootnotetext}[1]{%
13599 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13600 \global\setbox\@mpfootinsv@r\vbox{%
13601 \unvbox\@mpfootinsv@r
13602 \RTLtrue
13603 \def\baselinestretch{\m@m@footnote@spacing}%
13604 \reset@font\RTLfoottextfont
13605 \hsize\columnwidth \@parboxrestore
13606 \protected@edef\@currentlabel{%
13607 \csname p@mpfootnote\endcsname\@thefnmark}%
13608 \color@begingroup
13609 \@sixcolRTLfootfmt{#1}%
13610 \color@endgroup}%
13611 \m@mmf@prepare}
13612 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
13613 \@namedef{\@sixcol@footgroup#1}{%
13614 \def\baselinestretch{\m@m@footnote@spacing}%
13615 \hsize\bidi@columnwidth
13616 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13617 \m@r rigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
13618 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
13619 \@namedef{\@sixcol@LTRfootgroup#1}{%
13620 \def\baselinestretch{\m@m@footnote@spacing}%
13621 \hsize\bidi@columnwidth
13622 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13623 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%

```



```

13624 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
13625 \@namedef{\mpsixcol@footgroup#1}{%
13626 \def\baselinestretch{\m@m@footnote@spacing}%
13627 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13628 \m@mrigidbalance{\@nameuse{\mpfootins#1}}{6}{\splittopskip}}}%
13629 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%
13630 \@namedef{\mpsixcol@LTRfootgroup#1}{%
13631 \def\baselinestretch{\m@m@footnote@spacing}%
13632 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13633 \bidi@LTRrigidbalance{\@nameuse{\mpfootins#1}}{6}{\splittopskip}}}%
13634 \bidi@ensure@newcommand{\sevencolumnfootnotes}{%
13635 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13636 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13637 \@bidi@before@Hy@hyperfootnotes
13638 \let\@footnotetext\@sevencolfootnotetext
13639 \let\@LTRfootnotetext\@sevencolLTRfootnotetext
13640 \let\@RTLfootnotetext\@sevencolRTLfootnotetext
13641 \dimen\footinsv@r=7\footinsdim
13642 \count\footinsv@r=142\relax
13643 \m@make@sevencol@footgroup{v@r}%
13644 \let\@footgroupv@r\@sevencol@footgroupv@r
13645 \dimen\footinsv@l=7\footinsdim
13646 \count\footinsv@l=142\relax
13647 \bidi@make@sevencol@LTRfootgroup{v@l}%
13648 \let\@LTRfootgroupv@l\@sevencol@LTRfootgroupv@l
13649 \let\@mpfootnotetext\@mpsevencolfootnotetext
13650 \let\@mpLTRfootnotetext\@mpsevencolLTRfootnotetext
13651 \let\@mpRTLfootnotetext\@mpsevencolRTLfootnotetext
13652 \@bidi@after@Hy@hyperfootnotes
13653 \m@make@mpsevencol@footgroup{v@r}%
13654 \let\mp@footgroupv@r\@mpsevencol@footgroupv@r
13655 \bidi@make@mpsevencol@LTRfootgroup{v@l}%
13656 \let\mp@LTRfootgroupv@l\@mpsevencol@LTRfootgroupv@l
13657 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13658 }
13659 \newcommand{\SevenColumnFootnotes}{%
13660 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13661 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13662 \@bidi@before@Hy@hyperfootnotes
13663 \let\@footnotetext\@SevenColfootnotetext
13664 \let\@LTRfootnotetext\@SevenColLTRfootnotetext
13665 \let\@RTLfootnotetext\@SevenColRTLfootnotetext
13666 \dimen\footinsv@r=7\footinsdim
13667 \count\footinsv@r=142\relax
13668 \m@make@sevencol@footgroup{v@r}%
13669 \let\@footgroupv@r\@sevencol@footgroupv@r
13670 \dimen\footinsv@l=7\footinsdim
13671 \count\footinsv@l=142\relax
13672 \bidi@make@sevencol@LTRfootgroup{v@l}%
13673 \let\@LTRfootgroupv@l\@sevencol@LTRfootgroupv@l
13674 \let\@mpfootnotetext\@mpSevenColfootnotetext
13675 \let\@mpLTRfootnotetext\@mpSevenColLTRfootnotetext
13676 \let\@mpRTLfootnotetext\@mpSevenColRTLfootnotetext
13677 \@bidi@after@Hy@hyperfootnotes

```



```

13678 \m@make@mpsevenscol@footgroup{v@r}%
13679 \let\mp@footgroupv@r\@mpsevenscol@footgroupv@r
13680 \bidi@make@mpsevenscol@LTRfootgroup{v@l}%
13681 \let\mp@LTRfootgroupv@l\@mpsevenscol@LTRfootgroupv@l
13682 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13683 }
13684 \bidi@ensure@newcommand{\@sevenscolfootnotetext}[1]{\insert
13685 \if@RTL@footnote
13686 \footinsv@r
13687 \else
13688 \footinsv@l
13689 \fi
13690 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13691 \def\baselinestretch{\m@n@footnote@spacing}%
13692 \reset@font\foottextfont
13693 \@preamfntext
13694 \protected@edef\@currentlabel{%
13695 \csname p@footnote\endcsname\@thefnmark}%
13696 \color@begingroup
13697 \@sevenscolfootfmt{#1}%
13698 \color@endgroup}%
13699 \m@mmf@prepare}
13700 \newcommand{\@SevenColfootnotetext}[1]{%
13701 \bidi@step@absolute@footnote@count
13702 \if@RTL@footnote
13703 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13704 \else
13705 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13706 \fi
13707 \global\setbox
13708 \if@RTL@footnote
13709 \footinsv@r
13710 \else
13711 \footinsv@l
13712 \fi
13713 \vbox{%
13714 \unvbox
13715 \if@RTL@footnote
13716 \footinsv@r
13717 \else
13718 \footinsv@l
13719 \fi
13720 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13721 \def\baselinestretch{\m@n@footnote@spacing}%
13722 \reset@font\foottextfont
13723 \@preamfntext
13724 \protected@edef\@currentlabel{%
13725 \csname p@footnote\endcsname\@thefnmark}%
13726 \color@begingroup
13727 \@sevenscolfootfmt{#1}%
13728 \color@endgroup}%
13729 \m@mmf@prepare
13730 \if@RTL@footnote
13731 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r

```





```

13732 \else
13733 \bidi@reinsertfinalfootnoteperpage\footinsv@1\@footstartv@1\@LTRfootgroupv@1
13734 \fi
13735 }
13736 \bidi@ensure@newcommand{\@sevencolLTRfootnotetext}[1]{\insert\footinsv@1{\@RTLfalse%
13737 \def\baselinestretch{\m@m@footnote@spacing}%
13738 \reset@font\LTRfoottextfont
13739 \@preamfntext
13740 \protected@edef\@currentlabel{%
13741 \csname p@footnote\endcsname\@thefnmark}%
13742 \color@begingroup
13743 \@sevencolLTRfootfmt{#1}%
13744 \color@endgroup}%
13745 \m@mmf@prepare}
13746 \newcommand{\@SevenColLTRfootnotetext}[1]{%
13747 \bidi@step@absolutefootnote@count
13748 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13749 \global\setbox\footinsv@1\vbox{%
13750 \unvbox\footinsv@1
13751 \@RTLfalse
13752 \def\baselinestretch{\m@m@footnote@spacing}%
13753 \reset@font\LTRfoottextfont
13754 \@preamfntext
13755 \protected@edef\@currentlabel{%
13756 \csname p@footnote\endcsname\@thefnmark}%
13757 \color@begingroup
13758 \@sevencolLTRfootfmt{#1}%
13759 \color@endgroup}%
13760 \m@mmf@prepare
13761 \bidi@reinsertfinalfootnoteperpage\footinsv@1\@footstartv@1\@LTRfootgroupv@1
13762 }
13763 \bidi@ensure@newcommand{\@sevencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13764 \def\baselinestretch{\m@m@footnote@spacing}%
13765 \reset@font\RTLfoottextfont
13766 \@preamfntext
13767 \protected@edef\@currentlabel{%
13768 \csname p@footnote\endcsname\@thefnmark}%
13769 \color@begingroup
13770 \@sevencolRTLfootfmt{#1}%
13771 \color@endgroup}%
13772 \m@mmf@prepare}
13773 \newcommand{\@SevenColRTLfootnotetext}[1]{%
13774 \bidi@step@absolutefootnote@count
13775 \bidi@reinsertfootnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1
13776 \global\setbox\footinsv@r\vbox{%
13777 \unvbox\footinsv@r
13778 \@RTLtrue
13779 \def\baselinestretch{\m@m@footnote@spacing}%
13780 \reset@font\RTLfoottextfont
13781 \@preamfntext
13782 \protected@edef\@currentlabel{%
13783 \csname p@footnote\endcsname\@thefnmark}%
13784 \color@begingroup
13785 \@sevencolRTLfootfmt{#1}%

```



```

13786 \color@endgroup}%
13787 \m@mmf@prepare
13788 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13789 }
13790 \bidi@ensure@newcommand{\@preamsevenfmt}{%
13791 \hspace{.142\hspace}
13792 \parindent=\z@
13793 \tolerance=5000\relax
13794 \leavevmode}
13795 \bidi@ensure@newcommand{\@sevencolfootfmt}[1]{%
13796 \@preamsevenfmt
13797 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13798 \bidi@ensure@newcommand{\@sevencolLTRfootfmt}[1]{%
13799 \@preamsevenfmt
13800 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13801 \bidi@ensure@newcommand{\@sevencolRTLfootfmt}[1]{%
13802 \@preamsevenfmt
13803 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13804 \bidi@ensure@newcommand{\@mpsevencolfootnotetext}[1]{%
13805 \global\setbox
13806 \if@RTL@footnote
13807 \@mpfootinsv@r
13808 \else
13809 \@mpfootinsv@l
13810 \fi
13811 \vbox{%
13812 \unvbox
13813 \if@RTL@footnote
13814 \@mpfootinsv@r
13815 \else
13816 \@mpfootinsv@l
13817 \fi
13818 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13819 \def\baselinestretch{\m@mm@footnote@spacing}%
13820 \reset@font\foottextfont
13821 \hspace\columnwidth \@parboxrestore
13822 \protected@edef\@currentlabel{%
13823 \csname p@mpfootnote\endcsname\@thefnmark}%
13824 \color@begingroup
13825 \@sevencolfootfmt{#1}%
13826 \color@endgroup}%
13827 \m@mmf@prepare}
13828 \newcommand{\@mpSevenColfootnotetext}[1]{%
13829 \if@RTL@footnote
13830 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13831 \else
13832 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13833 \fi
13834 \global\setbox
13835 \if@RTL@footnote
13836 \@mpfootinsv@r
13837 \else
13838 \@mpfootinsv@l
13839 \fi

```



```

13840 \vbox{%
13841   \unvbox
13842   \if@RTL@footnote
13843   \@mpfootinsv@r
13844 \else
13845   \@mpfootinsv@l
13846 \fi
13847 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13848 \def\baselinestretch{\m@m@footnote@spacing}%
13849 \reset@font\foottextfont
13850 \hsize\columnwidth \@parboxrestore
13851 \protected@edef\@currentlabel{%
13852   \csname p@mpfootnote\endcsname\@thefnmark}%
13853 \color@begingroup
13854   \@sevenscolfootfmt{#1}%
13855 \color@endgroup}%
13856 \m@m@mmf@prepare}
13857 \bidi@ensure@newcommand{\@mpsevencolLTRfootnotetext}[1]{%
13858 \global\setbox\@mpfootinsv@l\vbox{%
13859   \unvbox\@mpfootinsv@l
13860   \@RTLfalse
13861   \def\baselinestretch{\m@m@footnote@spacing}%
13862   \reset@font\LTRfoottextfont
13863   \hsize\columnwidth \@parboxrestore
13864   \protected@edef\@currentlabel{%
13865     \csname p@mpfootnote\endcsname\@thefnmark}%
13866 \color@begingroup
13867   \@sevenscolLTRfootfmt{#1}%
13868 \color@endgroup}%
13869 \m@m@mmf@prepare}
13870 \newcommand{\@mpSevenColLTRfootnotetext}[1]{%
13871 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13872 \global\setbox\@mpfootinsv@l\vbox{%
13873   \unvbox\@mpfootinsv@l
13874   \@RTLfalse
13875   \def\baselinestretch{\m@m@footnote@spacing}%
13876   \reset@font\LTRfoottextfont
13877   \hsize\columnwidth \@parboxrestore
13878   \protected@edef\@currentlabel{%
13879     \csname p@mpfootnote\endcsname\@thefnmark}%
13880 \color@begingroup
13881   \@sevenscolLTRfootfmt{#1}%
13882 \color@endgroup}%
13883 \m@m@mmf@prepare}
13884 \bidi@ensure@newcommand{\@mpsevencolRTLfootnotetext}[1]{%
13885 \global\setbox\@mpfootinsv@r\vbox{%
13886   \unvbox\@mpfootinsv@r
13887   \@RTLtrue
13888   \def\baselinestretch{\m@m@footnote@spacing}%
13889   \reset@font\RTLfoottextfont
13890   \hsize\columnwidth \@parboxrestore
13891   \protected@edef\@currentlabel{%
13892     \csname p@mpfootnote\endcsname\@thefnmark}%
13893 \color@begingroup

```



```

13894 \sevenscolRTLfootfmt{#1}%
13895 \color@endgroup}%
13896 \m@mmf@prepare}
13897 \newcommand{\@mpSevenColRTLfootnotetext}[1]{%
13898 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13899 \global\setbox\@mpfootinsv@r\vbox{%
13900 \unvbox\@mpfootinsv@r
13901 \RTLtrue
13902 \def\baselinestretch{\m@m@footnote@spacing}%
13903 \reset@font\RTLfoottextfont
13904 \hsize\columnwidth \@parboxrestore
13905 \protected@edef\@currentlabel{%
13906 \csname p@mpfootnote\endcsname\@thefnmark}%
13907 \color@begingroup
13908 \sevenscolRTLfootfmt{#1}%
13909 \color@endgroup}%
13910 \m@mmf@prepare}
13911 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
13912 \@namedef{\sevenscol@footgroup#1}{%
13913 \def\baselinestretch{\m@m@footnote@spacing}%
13914 \hsize\bidi@columnwidth
13915 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13916 \m@r@rigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
13917 \newcommand{\bidi@make@sevenscol@LTRfootgroup}[1]{%
13918 \@namedef{\sevenscol@LTRfootgroup#1}{%
13919 \def\baselinestretch{\m@m@footnote@spacing}%
13920 \hsize\bidi@columnwidth
13921 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13922 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
13923 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
13924 \@namedef{\mpsevenscol@footgroup#1}{%
13925 \def\baselinestretch{\m@m@footnote@spacing}%
13926 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13927 \m@r@rigidbalance{\@nameuse{\mpfootins#1}}{7}{\splittopskip}}}}
13928 \newcommand{\bidi@make@mpsevenscol@LTRfootgroup}[1]{%
13929 \@namedef{\mpsevenscol@LTRfootgroup#1}{%
13930 \def\baselinestretch{\m@m@footnote@spacing}%
13931 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13932 \bidi@LTRrigidbalance{\@nameuse{\mpfootins#1}}{7}{\splittopskip}}}}
13933 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
13934 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13935 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13936 \@bidi@before@Hy@hyperfootnotes
13937 \let\@footnotetext\@eightcolfootnotetext
13938 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
13939 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
13940 \dimen\footinsv@r=8\footinsdim
13941 \count\footinsv@r=125\relax
13942 \m@make@eightcol@footgroup{v@r}%
13943 \let\@footgroupv@r\@eightcol@footgroupv@r
13944 \dimen\footinsv@l=8\footinsdim
13945 \count\footinsv@l=125\relax
13946 \bidi@make@eightcol@LTRfootgroup{v@l}%
13947 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l

```



```

13948 \let\@mpfootnotetext\@mpeightcolfootnotetext
13949 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
13950 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
13951 \@bidi@after@Hy@hyperfootnotes
13952 \m@make@mpeightcol@footgroup{v@r}%
13953 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13954 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13955 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13956 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13957 }
13958 \newcommand{\EightColumnFootnotes}{%
13959 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13960 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13961 \@bidi@before@Hy@hyperfootnotes
13962 \let\@footnotetext\@EightColfootnotetext
13963 \let\@LTRfootnotetext\@EightColLTRfootnotetext
13964 \let\@RTLfootnotetext\@EightColRTLfootnotetext
13965 \dimen\footinsv@r=8\footinsdim
13966 \count\footinsv@r=125\relax
13967 \m@make@eightcol@footgroup{v@r}%
13968 \let\@footgroupv@r\@eightcol@footgroupv@r
13969 \dimen\footinsv@l=8\footinsdim
13970 \count\footinsv@l=125\relax
13971 \bidi@make@eightcol@LTRfootgroup{v@l}%
13972 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13973 \let\@mpfootnotetext\@mpEightColfootnotetext
13974 \let\@mpLTRfootnotetext\@mpEightColLTRfootnotetext
13975 \let\@mpRTLfootnotetext\@mpEightColRTLfootnotetext
13976 \@bidi@after@Hy@hyperfootnotes
13977 \m@make@mpeightcol@footgroup{v@r}%
13978 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13979 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13980 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13981 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13982 }
13983 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
13984 \if@RTL@footnote
13985 \footinsv@r
13986 \else
13987 \footinsv@l
13988 \fi
13989 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13990 \def\baselinestretch{\m@mm@footnote@spacing}%
13991 \reset@font\foottextfont
13992 \@preamfntext
13993 \protected@edef\@currentlabel{%
13994 \csname p@footnote\endcsname\@thefnmark}%
13995 \color@begingroup
13996 \@eightcolfootfmt{#1}%
13997 \color@endgroup}%
13998 \m@mmf@prepare}
13999 \newcommand{\@EightColfootnotetext}[1]{%
14000 \bidi@step@absolutefootnote@count
14001 \if@RTL@footnote

```



```

14002 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14003 \else
14004 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14005 \fi
14006 \global\setbox
14007 \if@RTL@footnote
14008 \footinsv@r
14009 \else
14010 \footinsv@l
14011 \fi
14012 \vbox{%
14013 \unvbox
14014 \if@RTL@footnote
14015 \footinsv@r
14016 \else
14017 \footinsv@l
14018 \fi
14019 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14020 \def\baselinestretch{\m@m@footnote@spacing}%
14021 \reset@font\foottextfont
14022 \@preamfntext
14023 \protected@edef\@currentlabel{%
14024 \csname p@footnote\endcsname\@thefnmark}%
14025 \color@begingroup
14026 \@eightcolfootfmt{#1}%
14027 \color@endgroup}%
14028 \m@mmf@prepare
14029 \if@RTL@footnote
14030 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14031 \else
14032 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14033 \fi
14034 }
14035 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14036 \def\baselinestretch{\m@m@footnote@spacing}%
14037 \reset@font\LTRfoottextfont
14038 \@preamfntext
14039 \protected@edef\@currentlabel{%
14040 \csname p@footnote\endcsname\@thefnmark}%
14041 \color@begingroup
14042 \@eightcolLTRfootfmt{#1}%
14043 \color@endgroup}%
14044 \m@mmf@prepare}
14045 \newcommand{\@EightColLTRfootnotetext}[1]{%
14046 \bidi@step@absolute@footnote@count
14047 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14048 \global\setbox\footinsv@l\vbox{%
14049 \unvbox\footinsv@l
14050 \@RTLfalse
14051 \def\baselinestretch{\m@m@footnote@spacing}%
14052 \reset@font\LTRfoottextfont
14053 \@preamfntext
14054 \protected@edef\@currentlabel{%
14055 \csname p@footnote\endcsname\@thefnmark}%

```



```

14056 \color@begingroup
14057   \@eightcolLTRfootfmt{#1}%
14058 \color@endgroup}%
14059 \m@mmf@prepare
14060 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14061 }
14062 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14063   \def\baselinestretch{\m@mm@footnote@spacing}%
14064   \reset@font\RTLfoottextfont
14065   \@preamfntext
14066   \protected@edef\@currentlabel{%
14067     \csname p@footnote\endcsname\@thefnmark}%
14068   \color@begingroup
14069     \@eightcolRTLfootfmt{#1}%
14070   \color@endgroup}%
14071   \m@mmf@prepare}
14072 \newcommand{\@EightColRTLfootnotetext}[1]{%
14073   \bidi@step@absolutefootnote@count
14074   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14075   \global\setbox\footinsv@r\vbox{%
14076     \unvbox\footinsv@r
14077     \@RTLtrue%
14078     \def\baselinestretch{\m@mm@footnote@spacing}%
14079     \reset@font\RTLfoottextfont
14080     \@preamfntext
14081     \protected@edef\@currentlabel{%
14082       \csname p@footnote\endcsname\@thefnmark}%
14083     \color@begingroup
14084       \@eightcolRTLfootfmt{#1}%
14085     \color@endgroup}%
14086     \m@mmf@prepare
14087   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14088 }
14089 \bidi@ensure@newcommand{\@preameightfmt}{%
14090   \hspace{.125\hsize}
14091   \parindent=\z@
14092   \tolerance=5000\relax
14093   \leavevmode}
14094 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
14095   \@preameightfmt
14096   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14097 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
14098   \@preameightfmt
14099   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14100 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
14101   \@preameightfmt
14102   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14103 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
14104   \global\setbox
14105     \if@RTL@footnote
14106       \@mpfootinsv@r
14107   \else
14108     \@mpfootinsv@l
14109   \fi

```



```

14110 \vbox{%
14111   \unvbox
14112   \if@RTL@footnote
14113   \@mpfootinsv@r
14114 \else
14115   \@mpfootinsv@l
14116 \fi
14117   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14118   \def\baselinestretch{\m@m@footnote@spacing}%
14119   \reset@font\foottextfont
14120   \hsize\columnwidth \@parboxrestore
14121   \protected@edef\@currentlabel{%
14122     \csname p@mpfootnote\endcsname\@thefnmark}%
14123   \color@begingroup
14124     \@eightcolfootfmt{#1}%
14125   \color@endgroup}%
14126   \m@m@mmf@prepare}
14127 \newcommand{\@mpEightColfootnotetext}[1]{%
14128   \if@RTL@footnote
14129     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14130   \else
14131     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14132   \fi
14133   \global\setbox
14134     \if@RTL@footnote
14135     \@mpfootinsv@r
14136   \else
14137     \@mpfootinsv@l
14138   \fi
14139   \vbox{%
14140     \unvbox
14141     \if@RTL@footnote
14142     \@mpfootinsv@r
14143   \else
14144     \@mpfootinsv@l
14145   \fi
14146     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14147     \def\baselinestretch{\m@m@footnote@spacing}%
14148     \reset@font\foottextfont
14149     \hsize\columnwidth \@parboxrestore
14150     \protected@edef\@currentlabel{%
14151       \csname p@mpfootnote\endcsname\@thefnmark}%
14152     \color@begingroup
14153       \@eightcolfootfmt{#1}%
14154     \color@endgroup}%
14155     \m@m@mmf@prepare}
14156 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
14157   \global\setbox\@mpfootinsv@l\vbox{%
14158     \unvbox\@mpfootinsv@l
14159     \@RTLfalse
14160     \def\baselinestretch{\m@m@footnote@spacing}%
14161     \reset@font\LTRfoottextfont
14162     \hsize\columnwidth \@parboxrestore
14163     \protected@edef\@currentlabel{%

```





```

14164      \csname p@mpfootnote\endcsname\@thefnmark}%
14165 \color@begingroup
14166   \@eightcolLTRfootfmt{#1}%
14167 \color@endgroup}%
14168 \m@mmf@prepare}
14169 \newcommand{\@mpEightColLTRfootnotetext}[1]{%
14170 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14171 \global\setbox\@mpfootinsv@l\vbox{%
14172   \unvbox\@mpfootinsv@l
14173   \@RTLfalse
14174   \def\baselinestretch{\m@m@footnote@spacing}%
14175   \reset@font\LTRfoottextfont
14176   \hsize\columnwidth \@parboxrestore
14177   \protected@edef\@currentlabel{%
14178     \csname p@mpfootnote\endcsname\@thefnmark}%
14179 \color@begingroup
14180   \@eightcolLTRfootfmt{#1}%
14181 \color@endgroup}%
14182 \m@mmf@prepare}
14183 \bidi@ensure@newcommand{\@mpEightColRTLfootnotetext}[1]{%
14184 \global\setbox\@mpfootinsv@r\vbox{%
14185   \unvbox\@mpfootinsv@r
14186   \@RTLtrue
14187   \def\baselinestretch{\m@m@footnote@spacing}%
14188   \reset@font\RTLfoottextfont
14189   \hsize\columnwidth \@parboxrestore
14190   \protected@edef\@currentlabel{%
14191     \csname p@mpfootnote\endcsname\@thefnmark}%
14192 \color@begingroup
14193   \@eightcolRTLfootfmt{#1}%
14194 \color@endgroup}%
14195 \m@mmf@prepare}
14196 \newcommand{\@mpEightColRTLfootnotetext}[1]{%
14197 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14198 \global\setbox\@mpfootinsv@r\vbox{%
14199   \unvbox\@mpfootinsv@r
14200   \@RTLtrue
14201   \def\baselinestretch{\m@m@footnote@spacing}%
14202   \reset@font\RTLfoottextfont
14203   \hsize\columnwidth \@parboxrestore
14204   \protected@edef\@currentlabel{%
14205     \csname p@mpfootnote\endcsname\@thefnmark}%
14206 \color@begingroup
14207   \@eightcolRTLfootfmt{#1}%
14208 \color@endgroup}%
14209 \m@mmf@prepare}
14210 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
14211 \namedef{@eightcol@footgroup#1}{%
14212   \def\baselinestretch{\m@m@footnote@spacing}%
14213   \hsize\bidi@columnwidth
14214   \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14215   \m@rigrigidbodybalance{\@nameuse{footins#1}}{8}{\splittopskip}}}
14216 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
14217 \namedef{@eightcol@LTRfootgroup#1}{%

```



```

14218 \def\baselinestretch{\m@m@footnote@spacing}%
14219 \hsize\bidicolumnwidth
14220 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14221 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
14222 \bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
14223 \@namedef{@mpeightcol@footgroup#1}{%
14224 \def\baselinestretch{\m@m@footnote@spacing}%
14225 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14226 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}}}
14227 \newcommand{\bidi@make@mpeightcol@LTRfootgroup}[1]{%
14228 \@namedef{@mpeightcol@LTRfootgroup#1}{%
14229 \def\baselinestretch{\m@m@footnote@spacing}%
14230 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14231 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}}}
14232 \bidi@ensure@newcommand{\necolumnfootnotes}{%
14233 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14234 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14235 \@bidi@before@Hy@hyperfootnotes
14236 \let\@footnotetext\@necolfootnotetext
14237 \let\@LTRfootnotetext\@necolLTRfootnotetext
14238 \let\@RTLfootnotetext\@necolRTLfootnotetext
14239 \dimen\footinsv@r=9\footinsdim
14240 \count\footinsv@r=111\relax
14241 \m@make@necol@footgroup{v@r}%
14242 \let\@footgroupv@r\@necol@footgroupv@r
14243 \dimen\footinsv@l=9\footinsdim
14244 \count\footinsv@l=111\relax
14245 \bidi@make@necol@LTRfootgroup{v@l}%
14246 \let\@LTRfootgroupv@l\@necol@LTRfootgroupv@l
14247 \let\@mpfootnotetext\@mpnecolfootnotetext
14248 \let\@mpLTRfootnotetext\@mpnecolLTRfootnotetext
14249 \let\@mpRTLfootnotetext\@mpnecolRTLfootnotetext
14250 \@bidi@after@Hy@hyperfootnotes
14251 \m@make@mpnecol@footgroup{v@r}%
14252 \let\mp@footgroupv@r\@mpnecol@footgroupv@r
14253 \bidi@make@mpnecol@LTRfootgroup{v@l}%
14254 \let\mp@LTRfootgroupv@l\@mpnecol@LTRfootgroupv@l
14255 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14256 }
14257 \newcommand{\NineColumnFootnotes}{%
14258 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14259 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14260 \@bidi@before@Hy@hyperfootnotes
14261 \let\@footnotetext\@NineColfootnotetext
14262 \let\@LTRfootnotetext\@NineColLTRfootnotetext
14263 \let\@RTLfootnotetext\@NineColRTLfootnotetext
14264 \dimen\footinsv@r=9\footinsdim
14265 \count\footinsv@r=111\relax
14266 \m@make@necol@footgroup{v@r}%
14267 \let\@footgroupv@r\@necol@footgroupv@r
14268 \dimen\footinsv@l=9\footinsdim
14269 \count\footinsv@l=111\relax
14270 \bidi@make@necol@LTRfootgroup{v@l}%
14271 \let\@LTRfootgroupv@l\@necol@LTRfootgroupv@l

```



```

14272 \let\@mpfootnotetext\@mpNineColfootnotetext
14273 \let\@mpLTRfootnotetext\@mpNineColLTRfootnotetext
14274 \let\@mpRTLfootnotetext\@mpNineColRTLfootnotetext
14275 \@bidi@after@Hy@hyperfootnotes
14276 \m@make@mpninecol@footgroup{v@r}%
14277 \let\mp@footgroupv@r\@mpninecol@footgroupv@r
14278 \bidi@make@mpninecol@LTRfootgroup{v@l}%
14279 \let\mp@LTRfootgroupv@l\@mpninecol@LTRfootgroupv@l
14280 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14281 }
14282 \bidi@ensure@newcommand{\@ninecolfootnotetext}[1]{\insert
14283 \ifRTL@footnote
14284 \footinsv@r
14285 \else
14286 \footinsv@l
14287 \fi
14288 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14289 \def\baselinestretch{\m@mp@footnote@spacing}%
14290 \reset@font\foottextfont
14291 \@preamfntext
14292 \protected@edef\@currentlabel{%
14293 \csname p@footnote\endcsname\@thefnmark}%
14294 \color@begingroup
14295 \@ninecolfootfmt{#1}%
14296 \color@endgroup}%
14297 \m@mmf@prepare}
14298 \newcommand{\@NineColfootnotetext}[1]{%
14299 \bidi@step@absolute@footnote@count
14300 \ifRTL@footnote
14301 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14302 \else
14303 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14304 \fi
14305 \global\setbox
14306 \ifRTL@footnote
14307 \footinsv@r
14308 \else
14309 \footinsv@l
14310 \fi
14311 \vbox{%
14312 \unvbox
14313 \ifRTL@footnote
14314 \footinsv@r
14315 \else
14316 \footinsv@l
14317 \fi
14318 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
14319 \def\baselinestretch{\m@mp@footnote@spacing}%
14320 \reset@font\foottextfont
14321 \@preamfntext
14322 \protected@edef\@currentlabel{%
14323 \csname p@footnote\endcsname\@thefnmark}%
14324 \color@begingroup
14325 \@ninecolfootfmt{#1}%

```



```

14326 \color@endgroup}%
14327 \m@mmf@prepare
14328 \if@RTL@footnote
14329 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14330 \else
14331 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14332 \fi
14333 }
14334 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14335 \def\baselinestretch{\m@m@footnote@spacing}%
14336 \reset@font\LTRfoottextfont
14337 \@preamfntext
14338 \protected@edef\@currentlabel{%
14339 \csname p@footnote\endcsname\@thefnmark}%
14340 \color@begingroup
14341 \@ninecolLTRfootfmt{#1}%
14342 \color@endgroup}%
14343 \m@mmf@prepare}
14344 \newcommand{\@NineColLTRfootnotetext}[1]{%
14345 \bidi@step@absolute@footnote@count
14346 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14347 \global\setbox\footinsv@l\vbox{%
14348 \unvbox\footinsv@l
14349 \@RTLfalse
14350 \def\baselinestretch{\m@m@footnote@spacing}%
14351 \reset@font\LTRfoottextfont
14352 \@preamfntext
14353 \protected@edef\@currentlabel{%
14354 \csname p@footnote\endcsname\@thefnmark}%
14355 \color@begingroup
14356 \@ninecolLTRfootfmt{#1}%
14357 \color@endgroup}%
14358 \m@mmf@prepare
14359 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14360 }
14361 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14362 \def\baselinestretch{\m@m@footnote@spacing}%
14363 \reset@font\RTLfoottextfont
14364 \@preamfntext
14365 \protected@edef\@currentlabel{%
14366 \csname p@footnote\endcsname\@thefnmark}%
14367 \color@begingroup
14368 \@ninecolRTLfootfmt{#1}%
14369 \color@endgroup}%
14370 \m@mmf@prepare}
14371 \newcommand{\@NineColRTLfootnotetext}[1]{%
14372 \bidi@step@absolute@footnote@count
14373 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14374 \global\setbox\footinsv@r\vbox{%
14375 \unvbox\footinsv@r
14376 \@RTLtrue
14377 \def\baselinestretch{\m@m@footnote@spacing}%
14378 \reset@font\RTLfoottextfont
14379 \@preamfntext

```



```

14380 \protected@edef\@currentlabel{%
14381   \csname p@footnote\endcsname\@thefnmark}%
14382 \color@begingroup
14383   \@ninecolRTLfootfmt{#1}%
14384 \color@endgroup}%
14385 \m@mmf@prepare
14386 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14387 }
14388 \bidi@ensure@newcommand{\@preamninefmt}{%
14389   \hspace{.1\hspace}
14390   \parindent=\z@
14391   \tolerance=5000\relax
14392   \leavevmode}
14393 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
14394   \@preamninefmt
14395   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14396 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
14397   \@preamninefmt
14398   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14399 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
14400   \@preamninefmt
14401   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14402 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
14403   \global\setbox
14404     \if@RTL@footnote
14405       \@mpfootinsv@r
14406     \else
14407       \@mpfootinsv@l
14408     \fi
14409   \vbox{%
14410     \unvbox
14411     \if@RTL@footnote
14412       \@mpfootinsv@r
14413     \else
14414       \@mpfootinsv@l
14415     \fi
14416     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14417     \def\baselinestretch{\m@mm@footnote@spacing}%
14418     \reset@font\foottextfont
14419     \hspace\columnwidth \@parboxrestore
14420     \protected@edef\@currentlabel{%
14421       \csname p@mpfootnote\endcsname\@thefnmark}%
14422     \color@begingroup
14423       \@ninecolfootfmt{#1}%
14424     \color@endgroup}%
14425     \m@mmf@prepare}
14426 \newcommand{\@mpNineColfootnotetext}[1]{%
14427   \if@RTL@footnote
14428     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14429   \else
14430     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14431   \fi
14432   \global\setbox
14433     \if@RTL@footnote

```



```

14434 \mpfootinsv@r
14435 \else
14436 \mpfootinsv@l
14437 \fi
14438 \vbox{%
14439 \unvbox
14440 \if@RTL@footnote
14441 \mpfootinsv@r
14442 \else
14443 \mpfootinsv@l
14444 \fi
14445 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14446 \def\baselinestretch{\m@m@footnote@spacing}%
14447 \reset@font\foottextfont
14448 \hsize\columnwidth \@parboxrestore
14449 \protected@edef\@currentlabel{%
14450 \csname p@mpfootnote\endcsname\@thefnmark}%
14451 \color@begingroup
14452 \@ninecolfootfmt{#1}%
14453 \color@endgroup}%
14454 \m@m@mmf@prepare}
14455 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
14456 \global\setbox\@mpfootinsv@l\vbox{%
14457 \unvbox\@mpfootinsv@l
14458 \@RTLfalse
14459 \def\baselinestretch{\m@m@footnote@spacing}%
14460 \reset@font\LTRfoottextfont
14461 \hsize\columnwidth \@parboxrestore
14462 \protected@edef\@currentlabel{%
14463 \csname p@mpfootnote\endcsname\@thefnmark}%
14464 \color@begingroup
14465 \@ninecolLTRfootfmt{#1}%
14466 \color@endgroup}%
14467 \m@m@mmf@prepare}
14468 \newcommand{\@mpNineColLTRfootnotetext}[1]{%
14469 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14470 \global\setbox\@mpfootinsv@l\vbox{%
14471 \unvbox\@mpfootinsv@l
14472 \@RTLfalse
14473 \def\baselinestretch{\m@m@footnote@spacing}%
14474 \reset@font\LTRfoottextfont
14475 \hsize\columnwidth \@parboxrestore
14476 \protected@edef\@currentlabel{%
14477 \csname p@mpfootnote\endcsname\@thefnmark}%
14478 \color@begingroup
14479 \@ninecolLTRfootfmt{#1}%
14480 \color@endgroup}%
14481 \m@m@mmf@prepare}
14482 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
14483 \global\setbox\@mpfootinsv@r\vbox{%
14484 \unvbox\@mpfootinsv@r
14485 \@RTLtrue
14486 \def\baselinestretch{\m@m@footnote@spacing}%
14487 \reset@font\RTLfoottextfont

```



```

14488 \hsize\columnwidth \@parboxrestore
14489 \protected@edef\@currentlabel{%
14490 \csname p@mpfootnote\endcsname\@thefnmark}%
14491 \color@begingroup
14492 \@ninecolRTLfootfmt{#1}%
14493 \color@endgroup}%
14494 \m@mmf@prepare}
14495 \newcommand{\@mpNineColRTLfootnotetext}[1]{%
14496 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14497 \global\setbox\@mpfootinsv@r\vbox{%
14498 \unvbox\@mpfootinsv@r
14499 \@RTLtrue
14500 \def\baselinestretch{\m@m@footnote@spacing}%
14501 \reset@font\RTLfoottextfont
14502 \hsize\columnwidth \@parboxrestore
14503 \protected@edef\@currentlabel{%
14504 \csname p@mpfootnote\endcsname\@thefnmark}%
14505 \color@begingroup
14506 \@ninecolRTLfootfmt{#1}%
14507 \color@endgroup}%
14508 \m@mmf@prepare}
14509 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
14510 \@namedef{@ninecol@footgroup#1}{%
14511 \def\baselinestretch{\m@m@footnote@spacing}%
14512 \hsize\bidi@columnwidth
14513 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14514 \m@mrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14515 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
14516 \@namedef{@ninecol@LTRfootgroup#1}{%
14517 \def\baselinestretch{\m@m@footnote@spacing}%
14518 \hsize\bidi@columnwidth
14519 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14520 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14521 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
14522 \@namedef{@mpninecol@footgroup#1}{%
14523 \def\baselinestretch{\m@m@footnote@spacing}%
14524 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14525 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}}
14526 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
14527 \@namedef{@mpninecol@LTRfootgroup#1}{%
14528 \def\baselinestretch{\m@m@footnote@spacing}%
14529 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14530 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}}
14531 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
14532 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14533 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14534 \@bidi@before@Hy@hyperfootnotes
14535 \let\@footnotetext\@tencolfootnotetext
14536 \let\@LTRfootnotetext\@tencolLTRfootnotetext
14537 \let\@RTLfootnotetext\@tencolRTLfootnotetext
14538 \dimen\footinsv@r=10\footinsdim
14539 \count\footinsv@r=100\relax
14540 \m@make@tencol@footgroup{v@r}%
14541 \let\@footgroupv@r\@tencol@footgroupv@r

```



```

14542 \dimen\footinsv@l=10\footinsdim
14543 \count\footinsv@l=100\relax
14544 \bidi@make@tencol@LTRfootgroup{v@l}%
14545 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14546 \let\@mpfootnotetext\@mptencolfootnotetext
14547 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
14548 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
14549 \@bidi@after@Hy@hyperfootnotes
14550 \m@make@mptencol@footgroup{v@r}%
14551 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14552 \bidi@make@mptencol@LTRfootgroup{v@l}%
14553 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
14554 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14555 }
14556 \newcommand{\TenColumnFootnotes}{%
14557 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14558 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14559 \@bidi@before@Hy@hyperfootnotes
14560 \let\@footnotetext\@TenColfootnotetext
14561 \let\@LTRfootnotetext\@TenColLTRfootnotetext
14562 \let\@RTLfootnotetext\@TenColRTLfootnotetext
14563 \dimen\footinsv@r=10\footinsdim
14564 \count\footinsv@r=100\relax
14565 \m@make@tencol@footgroup{v@r}%
14566 \let\@footgroupv@r\@tencol@footgroupv@r
14567 \dimen\footinsv@l=10\footinsdim
14568 \count\footinsv@l=100\relax
14569 \bidi@make@tencol@LTRfootgroup{v@l}%
14570 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14571 \let\@mpfootnotetext\@mpTenColfootnotetext
14572 \let\@mpLTRfootnotetext\@mpTenColLTRfootnotetext
14573 \let\@mpRTLfootnotetext\@mpTenColRTLfootnotetext
14574 \@bidi@after@Hy@hyperfootnotes
14575 \m@make@mptencol@footgroup{v@r}%
14576 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14577 \bidi@make@mptencol@LTRfootgroup{v@l}%
14578 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
14579 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14580 }
14581 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
14582 \if@RTL@footnote
14583 \footinsv@r
14584 \else
14585 \footinsv@l
14586 \fi
14587 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14588 \def\baselinestretch{\m@footnote@spacing}%
14589 \reset@font\foottextfont
14590 \@preamfntext
14591 \protected@edef\@currentlabel{%
14592 \csname p@footnote\endcsname\@thefnmark}%
14593 \color@begingroup
14594 \@tencolfootfmt{#1}%
14595 \color@endgroup}%

```





```

14596 \m@mmf@prepare}
14597 \newcommand{\@TenColfootnotetext}[1]{%
14598 \bidi@step@absolutefootnote@count
14599 \if@RTL@footnote
14600 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14601 \else
14602 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14603 \fi
14604 \global\setbox
14605 \if@RTL@footnote
14606 \footinsv@r
14607 \else
14608 \footinsv@l
14609 \fi
14610 \vbox{%
14611 \unvbox
14612 \if@RTL@footnote
14613 \footinsv@r
14614 \else
14615 \footinsv@l
14616 \fi
14617 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14618 \def\baselinestretch{\m@m@footnote@spacing}%
14619 \reset@font\foottextfont
14620 \@preamfntext
14621 \protected@edef\@currentlabel{%
14622 \csname p@footnote\endcsname\@thefnmark}%
14623 \color@begingroup
14624 \@tencolfootfmt{#1}%
14625 \color@endgroup}%
14626 \m@mmf@prepare
14627 \if@RTL@footnote
14628 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14629 \else
14630 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14631 \fi
14632 }
14633 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14634 \def\baselinestretch{\m@m@footnote@spacing}%
14635 \reset@font\LTRfoottextfont
14636 \@preamfntext
14637 \protected@edef\@currentlabel{%
14638 \csname p@footnote\endcsname\@thefnmark}%
14639 \color@begingroup
14640 \@tencolLTRfootfmt{#1}%
14641 \color@endgroup}%
14642 \m@mmf@prepare}
14643 \newcommand{\@TenColLTRfootnotetext}[1]{%
14644 \bidi@step@absolutefootnote@count
14645 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14646 \global\setbox\footinsv@l\vbox{%
14647 \unvbox\footinsv@l
14648 \@RTLfalse%
14649 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

14650 \reset@font\LTRfoottextfont
14651 \@preamfntext
14652 \protected@edef\@currentlabel{%
14653   \csname p@footnote\endcsname\@thefnmark}%
14654 \color@begingroup
14655   \@tencolLTRfootfmt{#1}%
14656 \color@endgroup}%
14657 \m@mmf@prepare
14658 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14659 }
14660 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14661   \def\baselinestretch{\m@m@footnote@spacing}%
14662   \reset@font\RTLfoottextfont
14663   \@preamfntext
14664   \protected@edef\@currentlabel{%
14665     \csname p@footnote\endcsname\@thefnmark}%
14666   \color@begingroup
14667     \@tencolRTLfootfmt{#1}%
14668   \color@endgroup}%
14669   \m@mmf@prepare}
14670 \newcommand{\@TenColRTLfootnotetext}[1]{%
14671   \bidi@step@absolutefootnote@count
14672   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14673   \global\setbox\footinsv@r\vbox{%
14674     \unvbox\footinsv@r
14675     \@RTLtrue
14676     \def\baselinestretch{\m@m@footnote@spacing}%
14677     \reset@font\RTLfoottextfont
14678     \@preamfntext
14679     \protected@edef\@currentlabel{%
14680       \csname p@footnote\endcsname\@thefnmark}%
14681     \color@begingroup
14682       \@tencolRTLfootfmt{#1}%
14683     \color@endgroup}%
14684     \m@mmf@prepare
14685     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14686 }
14687 \bidi@ensure@newcommand{\@preamtenfmt}{%
14688   \hsize .1\hsize
14689   \parindent=\z@
14690   \tolerance=5000\relax
14691   \leavevmode}
14692 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
14693   \@preamtenfmt
14694   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14695 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
14696   \@preamtenfmt
14697   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14698 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
14699   \@preamtenfmt
14700   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14701 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
14702   \global\setbox
14703     \if@RTL@footnote

```



```

14704 \mpfootinsv@r
14705 \else
14706 \mpfootinsv@l
14707 \fi
14708 \vbox{%
14709 \unvbox
14710 \if@RTL@footnote
14711 \mpfootinsv@r
14712 \else
14713 \mpfootinsv@l
14714 \fi
14715 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14716 \def\baselinestretch{\m@{footnote@spacing}}%
14717 \reset@font\foottextfont
14718 \hsize\columnwidth \@parboxrestore
14719 \protected@edef\@currentlabel{%
14720 \csname p@mpfootnote\endcsname\@thefnmark}%
14721 \color@begingroup
14722 \@tencolfootfmt{#1}%
14723 \color@endgroup}%
14724 \m@mmf@prepare}
14725 \newcommand{\@mpTenColfootnotetext}[1]{%
14726 \if@RTL@footnote
14727 \bidi@joinmpfootnotes\mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14728 \else
14729 \bidi@joinmpfootnotes\mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14730 \fi
14731 \global\setbox
14732 \if@RTL@footnote
14733 \mpfootinsv@r
14734 \else
14735 \mpfootinsv@l
14736 \fi
14737 \vbox{%
14738 \unvbox
14739 \if@RTL@footnote
14740 \mpfootinsv@r
14741 \else
14742 \mpfootinsv@l
14743 \fi
14744 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14745 \def\baselinestretch{\m@{footnote@spacing}}%
14746 \reset@font\foottextfont
14747 \hsize\columnwidth \@parboxrestore
14748 \protected@edef\@currentlabel{%
14749 \csname p@mpfootnote\endcsname\@thefnmark}%
14750 \color@begingroup
14751 \@tencolfootfmt{#1}%
14752 \color@endgroup}%
14753 \m@mmf@prepare}
14754 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
14755 \global\setbox\mpfootinsv@l\vbox{%
14756 \unvbox\mpfootinsv@l
14757 \@RTLfalse

```



```

14758 \def\baselinestretch{\m@m@footnote@spacing}%
14759 \reset@font\LTRfoottextfont
14760 \hsize\columnwidth \@parboxrestore
14761 \protected@edef\@currentlabel{%
14762 \csname p@mpfootnote\endcsname\@thefnmark}%
14763 \color@begingroup
14764 \@tencolLTRfootfmt{#1}%
14765 \color@endgroup}%
14766 \m@m@mmf@prepare}
14767 \newcommand{\@mpTenColLTRfootnotetext}[1]{%
14768 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14769 \global\setbox\@mpfootinsv@l\vbox{%
14770 \unvbox\@mpfootinsv@l
14771 \@RTLfalse
14772 \def\baselinestretch{\m@m@footnote@spacing}%
14773 \reset@font\LTRfoottextfont
14774 \hsize\columnwidth \@parboxrestore
14775 \protected@edef\@currentlabel{%
14776 \csname p@mpfootnote\endcsname\@thefnmark}%
14777 \color@begingroup
14778 \@tencolLTRfootfmt{#1}%
14779 \color@endgroup}%
14780 \m@m@mmf@prepare}
14781 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
14782 \global\setbox\@mpfootinsv@r\vbox{%
14783 \unvbox\@mpfootinsv@r
14784 \@RTLtrue
14785 \def\baselinestretch{\m@m@footnote@spacing}%
14786 \reset@font\RTLfoottextfont
14787 \hsize\columnwidth \@parboxrestore
14788 \protected@edef\@currentlabel{%
14789 \csname p@mpfootnote\endcsname\@thefnmark}%
14790 \color@begingroup
14791 \@tencolRTLfootfmt{#1}%
14792 \color@endgroup}%
14793 \m@m@mmf@prepare}
14794 \newcommand{\@mpTenColRTLfootnotetext}[1]{%
14795 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14796 \global\setbox\@mpfootinsv@r\vbox{%
14797 \unvbox\@mpfootinsv@r
14798 \@RTLtrue
14799 \def\baselinestretch{\m@m@footnote@spacing}%
14800 \reset@font\RTLfoottextfont
14801 \hsize\columnwidth \@parboxrestore
14802 \protected@edef\@currentlabel{%
14803 \csname p@mpfootnote\endcsname\@thefnmark}%
14804 \color@begingroup
14805 \@tencolRTLfootfmt{#1}%
14806 \color@endgroup}%
14807 \m@m@mmf@prepare}
14808 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
14809 \@namedef{\@tencol@footgroup#1}{%
14810 \def\baselinestretch{\m@m@footnote@spacing}%
14811 \hsize\bidi@columnwidth

```



```

14812 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14813 \m@rigrigibalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
14814 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
14815 \@namedef{@tencol@LTRfootgroup#1}{%
14816 \def\baselinestretch{\m@m@footnote@spacing}%
14817 \hsize\bidi@columnwidth
14818 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14819 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
14820 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
14821 \@namedef{@mptencol@footgroup#1}{%
14822 \def\baselinestretch{\m@m@footnote@spacing}%
14823 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14824 \m@rigrigibalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}}
14825 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
14826 \@namedef{@mptencol@LTRfootgroup#1}{%
14827 \def\baselinestretch{\m@m@footnote@spacing}%
14828 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14829 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}}
14830 \bidi@ensure@newcommand{\m@munvxh}[1]{%
14831 \setbox0=\vbox{\@unvbox#1%
14832 \global\setbox1=\lastbox}%
14833 \unhbox1
14834 \unskip
14835 \unskip
14836 \unpenalty
14837 \hskip\m@mipn@skip}
14838 \bidi@ensure@newcommand{\m@mungebox}{%
14839 \setbox0=\hbox{\m@munvxh0}%
14840 \dp0=\z@
14841 \ht0=\footfudgefactor\wd0
14842 \box0
14843 \penalty0}
14844 \newskip\m@mipn@skip
14845 \bidi@ensure@newcommand*{\m@minterparanoteglue}[1]{%
14846 {\foottextfont\global\m@mipn@skip=#1\relax}}
14847 \m@minterparanoteglue{1em plus.3em minus.3em}
14848 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
14849 \setbox0=\hbox{}%
14850 \loop
14851 \unpenalty
14852 \setbox2=\lastbox
14853 \ifhbox2
14854 \setbox0=\hbox{\box2\unhbox0}
14855 \repeat}
14856 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
14857 \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
14858 \newcommand*{\AddExtraParaSkip}[1]{%
14859 \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
14860 }
14861 \let\bidi@xparaskip\relax
14862 \@onlypreamble\AddExtraParaSkip
14863 \@onlypreamble\bidi@xparaskip
14864 \def\bidi@startparafootskip#1{%
14865 \global\advance\skip#1\bidi@paraskip

```



```

14866 }
14867 \onlypreamble\bidistartparafootskip
14868 \bidiensurenewcommand{\paragraphfootnotes}{%
14869   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14870   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14871   \@bidi@before@Hy@hyperfootnotes
14872   \let\@footnotetext\@parafootnotetext
14873   \let\@LTRfootnotetext\@paraLTRfootnotetext
14874   \let\@RTLfootnotetext\@paraRTLfootnotetext
14875   \dimen\footinsv@r=\footinsdim
14876   \count\footinsv@r=1000\relax
14877   \let\@bidi@removexfootskip\@bidi@removexparafootskip
14878   \m@make@para@footgroup{v@r}%
14879   \m@make@para@footstart{v@r}%
14880   \let\@footgroupv@r\@para@footgroupv@r
14881   \let\@footstartv@r\@para@footstartv@r
14882   \dimen\footinsv@l=\footinsdim
14883   \count\footinsv@l=1000\relax
14884   \bidi@make@para@LTRfootgroup{v@l}%
14885   \m@make@para@footstart{v@l}%
14886   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14887   \let\@footstartv@l\@para@footstartv@l
14888   \let\@mpfootnotetext\@mpparafootnotetext
14889   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14890   \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
14891   \@bidi@after@Hy@hyperfootnotes
14892   \m@make@mppara@footgroup{v@r}%
14893   \bidi@make@mppara@LTRfootgroup{v@l}%
14894   \let\mp@footgroupv@r\@mppara@footgroupv@r
14895   \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14896   \g@addto@macro\bidifloathook{%
14897     \begingroup
14898       \foottextfont \@tempdima\normalbaselineskip
14899       \multiply \@tempdima \@cclvi
14900       \@tempdimb \columnwidth
14901       \divide \@tempdimb \@cclvi
14902       \divide \@tempdima \@tempdimb
14903       \xdef\footfudgefactor{\strip@pt\@tempdima}%
14904     \endgroup
14905   }
14906 \AtBeginDocument{%
14907   \begingroup
14908     \foottextfont
14909     \@tempdima\footnotesep
14910     \advance\@tempdima -\ht\strutbox
14911     \ifdim\@tempdima<z@ \@tempdima\z@ \fi
14912     \advance\@tempdima.5\normalbaselineskip
14913     \bidi@xparaskip
14914     \xdef\@bidi@paraskip{\the\@tempdima\relax}%
14915   \endgroup
14916   \bidi@startparafootskip\footinsv@r
14917   \bidi@startparafootskip\footinsv@l
14918 }
14919 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth

```



```

14920 }
14921 \newcommand{\ParagraphFootnotes}{%
14922   \@namedef{foottextfontv@r}{\foottextfont}%
14923   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14924   \@bidi@before@Hy@hyperfootnotes
14925   \let\@footnotetext\@Parafootnotetext
14926   \let\@LTRfootnotetext\@ParaLTRfootnotetext
14927   \let\@RTLfootnotetext\@ParaRTLfootnotetext
14928   \dimen\footinsv@r=\footinsdim
14929   \count\footinsv@r=1000\relax
14930   \let\@bidi@removexfootskip\@bidi@removexparafootskip
14931   \m@make@para@footgroup{v@r}%
14932   \m@make@para@footstart{v@r}%
14933   \let\@footgroupv@r\@para@footgroupv@r
14934   \let\@footstartv@r\@para@footstartv@r
14935   \dimen\footinsv@l=\footinsdim
14936   \count\footinsv@l=1000\relax
14937   \bidi@make@para@LTRfootgroup{v@l}%
14938   \m@make@para@footstart{v@l}%
14939   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14940   \let\@footstartv@l\@para@footstartv@l
14941   \let\@mpfootnotetext\@mpParafootnotetext
14942   \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
14943   \let\@mpRTLfootnotetext\@mpParaRTLfootnotetext
14944   \@bidi@after@Hy@hyperfootnotes
14945   \m@make@mppara@footgroup{v@r}%
14946   \bidi@make@mppara@LTRfootgroup{v@l}%
14947   \let\mp@footgroupv@r\@mppara@footgroupv@r
14948   \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14949   \g@addto@macro\@bidi@floathook{%
14950     \begingroup
14951       \foottextfont \@tempdima\normalbaselineskip
14952       \multiply \@tempdima \@cclvi
14953       \@tempdimb \columnwidth
14954       \divide \@tempdimb \@cclvi
14955       \divide \@tempdima \@tempdimb
14956       \xdef\footfudgefactor{\strip@pt\@tempdima}%
14957     \endgroup
14958   }
14959   \AtBeginDocument{%
14960     \begingroup
14961       \foottextfont
14962       \@tempdima\footnotesep
14963       \advance\@tempdima -\ht\strutbox
14964       \ifdim\@tempdima<z@ \@tempdima\z@ \fi
14965       \advance\@tempdima.5\normalbaselineskip
14966       \bidi@xparaskip
14967       \xdef\@bidi@paraskip{\the\@tempdima\relax}%
14968     \endgroup
14969     \bidi@startparafootskip\footinsv@r
14970     \bidi@startparafootskip\footinsv@l
14971   }
14972   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14973 }

```



```

14974 \newcommand{\normalRTLparaLTRfootnotes}{%
14975   \@namedef{foottextfontv@1}{\LTRfoottextfont}%
14976   \@bidi@before@Hy@hyperfootnotes
14977   \if@RTL@footnote
14978     \let\@footnotetext\m@mold@footnotetext
14979   \else
14980     \let\@footnotetext\@parafootnotetext
14981   \fi
14982   \let\@LTRfootnotetext\@paraLTRfootnotetext
14983   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
14984   \dimen\footinsv@1=\footinsdim
14985   \count\footinsv@1=1000\relax
14986   \let\@bidi@removexfootskip\@bidi@removexparafootskip
14987   \bidi@make@para@LTRfootgroup{v@1}%
14988   \m@make@para@footstart{v@1}%
14989   \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
14990   \let\@footstartv@1\@para@footstartv@1
14991   \if@RTL@footnote
14992     \let\@mpfootnotetext\m@mold@mpfootnotetext
14993   \else
14994     \let\@mpfootnotetext\@mpparafootnotetext
14995   \fi
14996   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14997   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
14998   \@bidi@after@Hy@hyperfootnotes
14999   \bidi@make@mppara@LTRfootgroup{v@1}%
15000   \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
15001   \g@addto@macro\@bidi@floathook{%
15002     \begingroup
15003       \LTRfoottextfont \@tempdima\normalbaselineskip
15004       \multiply \@tempdima \@cclvi
15005       \@tempdimb \columnwidth
15006       \divide \@tempdimb \@cclvi
15007       \divide \@tempdima \@tempdimb
15008       \xdef\footfudgefactor{\strip@pt\@tempdima}%
15009     \endgroup
15010   }
15011   \AtBeginDocument{%
15012     \begingroup
15013       \LTRfoottextfont
15014       \@tempdima\footnotesep
15015       \advance\@tempdima -\ht\strutbox
15016       \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
15017       \advance\@tempdima.5\normalbaselineskip
15018       \bidi@xparaskip
15019       \xdef\@bidi@paraskip{\the\@tempdima\relax}%
15020     \endgroup
15021     \bidi@startparafootskip\footinsv@1
15022   }
15023   \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
15024 }
15025 \newcommand{\NormalRTLParaLTRFootnotes}{%
15026   \@namedef{foottextfontv@1}{\LTRfoottextfont}%
15027   \@bidi@before@Hy@hyperfootnotes

```





```

15028 \if@RTL@footnote
15029   \let\@footnotetext\@bidi@bidiold@footnotetext
15030 \else
15031   \let\@footnotetext\@Parafootnotetext
15032 \fi
15033 \let\@LTRfootnotetext\@ParaLTRfootnotetext
15034 \let\@RTLfootnotetext\@bidi@bidiold@RTLfootnotetext
15035 \dimen\footinsv@l=\footinsdim
15036 \count\footinsv@l=1000\relax
15037 \let\@bidi@removexfootskip\@bidi@removexparafootskip
15038 \@bidi@make@para@LTRfootgroup{v@l}%
15039 \m@make@para@footstart{v@l}%
15040 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
15041 \let\@footstartv@l\@para@footstartv@l
15042 \if@RTL@footnote
15043   \let\@mpfootnotetext\@bidi@bidiold@mpfootnotetext
15044 \else
15045   \let\@mpfootnotetext\@mpParafootnotetext
15046 \fi
15047 \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
15048 \let\@mpRTLfootnotetext\@bidi@bidiold@mpRTLfootnotetext
15049 \@bidi@after@Hy@hyperfootnotes
15050 \@bidi@make@mppara@LTRfootgroup{v@l}%
15051 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
15052 \g@addto@macro\@bidi@floathook{%
15053   \begingroup
15054     \LTRfoottextfont \@tempdima\normalbaselineskip
15055     \multiply \@tempdima \@cclvi
15056     \@tempdimb \columnwidth
15057     \divide \@tempdimb \@cclvi
15058     \divide \@tempdima \@tempdimb
15059     \xdef\footfudgefactor{\strip@pt\@tempdima}%
15060   \endgroup
15061 }
15062 \AtBeginDocument{%
15063   \begingroup
15064     \LTRfoottextfont
15065     \@tempdima\footnotesep
15066     \advance\@tempdima -\ht\strutbox
15067     \ifdim\@tempdima<z@ \@tempdima z@ \fi
15068     \advance\@tempdima.5\normalbaselineskip
15069     \bidi@xparaskip
15070     \xdef\@bidi@paraskip{\the\@tempdima\relax}%
15071   \endgroup
15072   \bidi@startparafootskip\footinsv@l
15073 }
15074 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
15075 }
15076 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
15077   \if@RTL@footnote
15078     \footinsv@r
15079   \else
15080     \footinsv@l
15081   \fi

```



```

15082 {%
15083 \let\bidirTL@everypar\@empty%
15084 \def\baselinestretch{\m@m@footnote@spacing}%
15085 \reset@font\foottextfont
15086 \@preamfntext
15087 \protected@edef\@currentlabel{%
15088 \csname p@footnote\endcsname\@thefnmark}%
15089 \setbox0=\vbox{\hsize=\maxdimen
15090 \color@begingroup
15091 \noindent \@parafootfmt{#1}%
15092 \color@endgroup}%
15093 \m@mungebox}\m@mmf@prepare}
15094 \newcommand{\@Parafootnotetext}[1]{%
15095 \bidi@step@absolute@footnote@count
15096 \if@RTL@footnote
15097 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15098 \else
15099 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15100 \fi
15101 \global\setbox
15102 \if@RTL@footnote
15103 \footinsv@r
15104 \else
15105 \footinsv@l
15106 \fi
15107 \vbox{%
15108 \unvbox
15109 \if@RTL@footnote
15110 \footinsv@r
15111 \else
15112 \footinsv@l
15113 \fi
15114 \let\bidirTL@everypar\@empty%
15115 \def\baselinestretch{\m@m@footnote@spacing}%
15116 \reset@font\foottextfont
15117 \@preamfntext
15118 \protected@edef\@currentlabel{%
15119 \csname p@footnote\endcsname\@thefnmark}%
15120 \setbox0=\vbox{\hsize=\maxdimen
15121 \color@begingroup
15122 \noindent \@parafootfmt{#1}%
15123 \color@endgroup}%
15124 \m@mungebox}\m@mmf@prepare
15125 \if@RTL@footnote
15126 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15127 \else
15128 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15129 \fi
15130 }
15131 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
15132 \let\bidirTL@everypar\@empty%
15133 \def\baselinestretch{\m@m@footnote@spacing}%
15134 \reset@font\LTRfoottextfont
15135 \@preamfntext

```



```

15136 \protected@edef\@currentlabel{%
15137   \csname p@footnote\endcsname\@thefnmark}%
15138 \setbox0=\vbox{\hsize=\maxdimen
15139   \color@begingroup
15140   \noindent \@paraLTRfootfmt{#1}%
15141   \color@endgroup}%
15142 \m@ungebox}\m@mmf@prepare}
15143 \newcommand{\@ParaLTRfootnotetext}[1]{%
15144   \bidi@step@absolutefootnote@count
15145   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15146   \global\setbox\footinsv@l\vbox{%
15147     \unvbox\footinsv@l
15148     \let\bidi@RTL@everypar\@empty%
15149     \def\baselinestretch{\m@m@footnote@spacing}%
15150     \reset@font\LTRfoottextfont
15151     \@preamfntext
15152     \protected@edef\@currentlabel{%
15153       \csname p@footnote\endcsname\@thefnmark}%
15154     \setbox0=\vbox{\hsize=\maxdimen
15155       \color@begingroup
15156       \noindent \@paraLTRfootfmt{#1}%
15157       \color@endgroup}%
15158     \m@ungebox}\m@mmf@prepare
15159     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15160 }
15161 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
15162   \let\bidi@RTL@everypar\@empty%
15163   \def\baselinestretch{\m@m@footnote@spacing}%
15164   \reset@font\RTLfoottextfont
15165   \@preamfntext
15166   \protected@edef\@currentlabel{%
15167     \csname p@footnote\endcsname\@thefnmark}%
15168   \setbox0=\vbox{\hsize=\maxdimen
15169     \color@begingroup
15170     \noindent \@paraRTLfootfmt{#1}%
15171     \color@endgroup}%
15172   \m@ungebox}\m@mmf@prepare}
15173 \newcommand{\@ParaRTLfootnotetext}[1]{%
15174   \bidi@step@absolutefootnote@count
15175   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15176   \global\setbox\footinsv@r\vbox{%
15177     \unvbox\footinsv@r
15178     \let\bidi@RTL@everypar\@empty%
15179     \def\baselinestretch{\m@m@footnote@spacing}%
15180     \reset@font\RTLfoottextfont
15181     \@preamfntext
15182     \protected@edef\@currentlabel{%
15183       \csname p@footnote\endcsname\@thefnmark}%
15184     \setbox0=\vbox{\hsize=\maxdimen
15185       \color@begingroup
15186       \noindent \@paraRTLfootfmt{#1}%
15187       \color@endgroup}%
15188     \m@ungebox}\m@mmf@prepare
15189     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r

```



```

15190 }
15191 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
15192   \parindent=\z@
15193   \parfillskip=0pt \@plus 1fil
15194   {\footfootmark\strut {\foottextfont #1}\penalty-10}}
15195 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
15196   \parindent=\z@
15197   \parfillskip=0pt \@plus 1fil
15198   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
15199 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
15200   \parindent=\z@
15201   \parfillskip=0pt \@plus 1fil
15202   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
15203 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
15204   \global\setbox
15205     \if@RTL@footnote
15206       \@mpfootinsv@r
15207     \else
15208       \@mpfootinsv@l
15209     \fi
15210   \vbox{%
15211     \unvbox
15212     \if@RTL@footnote
15213       \@mpfootinsv@r
15214     \else
15215       \@mpfootinsv@l
15216     \fi
15217     \let\bidi@RTL@everypar\@empty
15218     \def\baselinestretch{\m@m@footnote@spacing}%
15219     \reset@font\foottextfont
15220     \hsize\columnwidth \@parboxrestore
15221     \protected@edef\@currentlabel{%
15222       \csname p@mpfootnote\endcsname\@thefnmark}%
15223     \setbox0=\vbox{\hsize=\maxdimen
15224       \color@begingroup
15225       \noindent \@parafootfmt{#1}%
15226       \color@endgroup}%
15227     \m@mungebox}\m@m@mf@prepare}
15228 \newcommand{\@mpParafootnotetext}[1]{%
15229   \if@RTL@footnote
15230     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15231   \else
15232     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15233   \fi
15234   \global\setbox
15235     \if@RTL@footnote
15236       \@mpfootinsv@r
15237     \else
15238       \@mpfootinsv@l
15239     \fi
15240   \vbox{%
15241     \unvbox
15242     \if@RTL@footnote
15243       \@mpfootinsv@r

```



```

15244 \else
15245 \mpfootinsv@l
15246 \fi
15247 \let\bidir@RTL@everypar\@empty
15248 \def\baselinestretch{\m@m@footnote@spacing}%
15249 \reset@font\foottextfont
15250 \hsize\columnwidth \@parboxrestore
15251 \protected@edef\@currentlabel{%
15252 \csname p@mpfootnote\endcsname\@thefnmark}%
15253 \setbox0=\vbox{\hsize=\maxdimen
15254 \color@begingroup
15255 \noindent \@parafootfmt{#1}%
15256 \color@endgroup}%
15257 \m@ungebox}\m@m@mmf@prepare}
15258 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
15259 \global\setbox\@mpfootinsv@l\vbox{%
15260 \unvbox\@mpfootinsv@l
15261 \let\bidir@RTL@everypar\@empty
15262 \def\baselinestretch{\m@m@footnote@spacing}%
15263 \reset@font\LTRfoottextfont
15264 \hsize\columnwidth \@parboxrestore
15265 \protected@edef\@currentlabel{%
15266 \csname p@mpfootnote\endcsname\@thefnmark}%
15267 \setbox0=\vbox{\hsize=\maxdimen
15268 \color@begingroup
15269 \noindent \@paraLTRfootfmt{#1}%
15270 \color@endgroup}%
15271 \m@ungebox}\m@m@mmf@prepare}
15272 \newcommand{\@mpParaLTRfootnotetext}[1]{%
15273 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15274 \global\setbox\@mpfootinsv@l\vbox{%
15275 \unvbox\@mpfootinsv@l
15276 \let\bidir@RTL@everypar\@empty
15277 \def\baselinestretch{\m@m@footnote@spacing}%
15278 \reset@font\LTRfoottextfont
15279 \hsize\columnwidth \@parboxrestore
15280 \protected@edef\@currentlabel{%
15281 \csname p@mpfootnote\endcsname\@thefnmark}%
15282 \setbox0=\vbox{\hsize=\maxdimen
15283 \color@begingroup
15284 \noindent \@paraLTRfootfmt{#1}%
15285 \color@endgroup}%
15286 \m@ungebox}\m@m@mmf@prepare}
15287 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
15288 \global\setbox\@mpfootinsv@r\vbox{%
15289 \unvbox\@mpfootinsv@r
15290 \let\bidir@RTL@everypar\@empty
15291 \def\baselinestretch{\m@m@footnote@spacing}%
15292 \reset@font\RTLfoottextfont
15293 \hsize\columnwidth \@parboxrestore
15294 \protected@edef\@currentlabel{%
15295 \csname p@mpfootnote\endcsname\@thefnmark}%
15296 \setbox0=\vbox{\hsize=\maxdimen
15297 \color@begingroup

```



```

15298 \noindent \@paraRTLfootfmt{#1}%
15299 \color@endgroup}%
15300 \m@ungebox}\m@mmf@prepare}
15301 \newcommand{\@mpParaRTLfootnotetext}[1]{%
15302 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15303 \global\setbox\@mpfootinsv@r\vbox{%
15304 \unvbox\@mpfootinsv@r
15305 \let\bidi@RTL@everypar\@empty
15306 \def\baselinestretch{\m@m@footnote@spacing}%
15307 \reset@font\RTLfoottextfont
15308 \hsize\columnwidth \@parboxrestore
15309 \protected@edef\@currentlabel{%
15310 \csname p@mpfootnote@endcsname\@thefnmark}%
15311 \setbox0=\vbox{\hsize=\maxdimen
15312 \color@begingroup
15313 \noindent \@paraRTLfootfmt{#1}%
15314 \color@endgroup}%
15315 \m@ungebox}\m@mmf@prepare}
15316 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
15317 \@namedef{@para@footgroup#1}{%
15318 \unvbox\@nameuse{footins#1}
15319 \@RTLtrue
15320 \m@mmakehboxofhboxes
15321 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15322 \hsize\bidi@columnwidth
15323 \@parboxrestore
15324 \def\baselinestretch{\m@m@footnote@spacing}%
15325 \@nameuse{foottextfont#1}%
15326 \noindent\unhbox0\par}}
15327 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
15328 \@namedef{@para@LTRfootgroup#1}{%
15329 \unvbox\@nameuse{footins#1}
15330 \@RTLfalse
15331 \m@mmakehboxofhboxes
15332 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15333 \hsize\bidi@columnwidth
15334 \@parboxrestore
15335 \def\baselinestretch{\m@m@footnote@spacing}%
15336 \@nameuse{foottextfont#1}%
15337 \noindent\unhbox0\par}}
15338 \newcommand{\bidi@removexparafootskip}{%
15339 \advance\@tempskipa -\bidi@paraskip
15340 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
15341 }
15342 \let\bidi@removexpafootskip\relax
15343 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
15344 \@namedef{@mppara@footgroup#1}{%
15345 \unvbox\@nameuse{@mpfootins#1}
15346 \@RTLtrue
15347 \m@mmakehboxofhboxes
15348 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15349 \def\baselinestretch{\m@m@footnote@spacing}%
15350 \@nameuse{foottextfont#1}%
15351 \noindent\unhbox0\par}}

```



```

15352 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
15353 \@namedef{@mppara@LTRfootgroup#1}{%
15354 \unvbox\@nameuse{@mpfootins#1}
15355 \@RTLfalse
15356 \m@mmakehboxofhboxes
15357 \setbox0=\hbox{\unhbox0 \m@removehboxes}%
15358 \def\baselinestretch{\m@m@footnote@spacing}%
15359 \@nameuse{foottextfont#1}%
15360 \noindent\unhbox0\par}}
15361 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
15362 \@namedef{@para@footstart#1}{%
15363 \leftskip=\z@
15364 \rightskip=\z@
15365 \parindent=\z@
15366 }%
15367 }
15368 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
15369 \xdef\@freelist{\@freelist\@midlist}%
15370 \global\let\@midlist\@empty
15371 \@combinefloats}
15372 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
15373 \ifvbox\@kludgeins
15374 \@makespecialcolbox
15375 \else
15376 \setbox\@outputbox \vbox to\@colht{%
15377 \@texttop
15378 \dimen@ \dp\@outputbox
15379 \unvbox \@outputbox
15380 \vskip -\dimen@
15381 \@textbottom}%
15382 \fi}
15383 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
15384 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
15385 \boxmaxdepth\@maxdepth
15386 \@tempdima\dp\@cclv
15387 \unvbox\@cclv
15388 \vskip-\@tempdima
15389 \bidi@mopfn@bottom
15390 \vskip \skip\footins
15391 \color@begingroup
15392 \normalcolor
15393 \footnoterule
15394 \unvbox \footins
15395 \color@endgroup
15396 }%
15397 }
15398 \newcommand*{\bidi@mopfootnotebf}{%
15399 \setbox\@outputbox \vbox{%
15400 \boxmaxdepth\@maxdepth
15401 \unvbox\@outputbox
15402 \bidi@mopfn@bottom
15403 \vskip\skip\footins
15404 \color@begingroup
15405 \normalcolor

```



```

15406 \footnoterule
15407 \unvbox \footins
15408 \color@endgroup
15409 }%
15410 }
15411 \gdef\mem@makecol{%
15412 \m@m@makecolintro
15413 \m@mndoextrafeet
15414 \ifvoid\footins
15415 \setbox\@outputbox \box\@cclv
15416 \else
15417 \m@mopfootnote
15418 \fi
15419 \m@m@makecolfloats
15420 \m@m@makecoltext
15421 \global \maxdepth \@maxdepth}
15422 \gdef\bidi@makecolbf{%
15423 \m@m@makecolintro
15424 \m@mndoextrafeet
15425 \setbox\@outputbox \box\@cclv
15426 \m@m@makecolfloats
15427 \ifvoid\footins
15428 \else
15429 \bidi@mopfootnotebf
15430 \fi
15431 \m@m@makecoltext
15432 \global \maxdepth \@maxdepth}
15433 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
15434 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
15435 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
15436 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
15437 \FeetAboveFloat
15438 \FeetBelowRagged
15439 \def\bidi@reinserts#1{\ifvoid#1\else
15440 \ifnum\count\@currbox>\z@
15441 \advance\@pageht \ht#1%
15442 \advance\@pageht \skip#1%
15443 \advance\@pageht \dp#1%
15444 \fi
15445 \insert#1{\unvbox#1}%
15446 \fi
15447 }
15448 \def\bidi@init@multi@footins#1{%
15449 \multiply\count#1\col@number
15450 \multiply\skip#1\col@number
15451 }
15452 \def\bidi@reinsert@footnotes#1{\ifvoid#1\else
15453 \insert#1{}\fi}
15454 \AtBeginDocument{%
15455 \bidi@preto\@doclearpage\m@mndoextrafeet
15456 \g@addto@macro\@reinserts{%
15457 \bidi@reinserts\footinsv@r
15458 \bidi@reinserts\footinsv@l
15459 }

```





```

15460 \bidi@floathook
15461 \g@addto@macro\@floatplacement{%
15462   \bidi@ifmulticol{}\bidi@floathook}%
15463 }%
15464 \if@bidi@csundef{multi@column@out}{%
15465   \@onlypreamble\bidi@init@multi@footins
15466   \let\bidi@ifmulticol\@secondoftwo
15467 }{%
15468   \bidi@preto\multi@column@out\m@mdoextrafeet
15469   \g@addto@macro\init@mult@footins{%
15470     \bidi@init@multi@footins\footinsv@r
15471     \bidi@init@multi@footins\footinsv@l
15472   }%
15473   \g@addto@macro\reinsert@footnotes{%
15474     \bidi@reinsert@footnotes\footinsv@r
15475     \bidi@reinsert@footnotes\footinsv@l
15476   }%
15477 }%
15478 }

```

## 87 File extreport-xetex-bidi.def

```

15479 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport class]
15480 \renewcommand*\l@part[2]{%
15481   \ifnum \c@tocdepth >-2\relax
15482     \addpenalty{-\@highpenalty}%
15483     \addvspace{2.25em \@plus\p@}%
15484     \begingroup
15485       \setlength\@tempdima{3em}%
15486       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15487       \parfillskip -\@pnumwidth
15488       {\leavevmode
15489         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
15490       \nobreak
15491       \global\@nobreaktrue
15492       \everypar{\global\@nobreakfalse\everypar{}}%
15493     \endgroup
15494   \fi}
15495 \renewcommand*\l@chapter[2]{%
15496   \ifnum \c@tocdepth >\m@ne
15497     \addpenalty{-\@highpenalty}%
15498     \vskip 1.0em \@plus\p@
15499     \setlength\@tempdima{1.5em}%
15500     \begingroup
15501       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15502       \parfillskip -\@pnumwidth
15503       \leavevmode \bfseries
15504       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
15505       \hskip -\if@RTL\rightskip\else\leftskip\fi
15506       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
15507       \penalty\@highpenalty
15508     \endgroup
15509   \fi}
15510 \def\@makechapterhead#1{%

```



```

15511 \vspace*{50\p@}%
15512 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
15513 \ifnum \c@secnumdepth >\m@ne
15514 \huge\bfseries \@chapapp\space \thechapter
15515 \par\nobreak
15516 \vskip 20\p@
15517 \fi
15518 \interlinepenalty\@M
15519 \Huge \bfseries #1\par\nobreak
15520 \vskip 40\p@
15521 }}
15522 \def\@makeschapterhead#1{%
15523 \vspace*{50\p@}%
15524 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
15525 \normalfont
15526 \interlinepenalty\@M
15527 \Huge \bfseries #1\par\nobreak
15528 \vskip 40\p@
15529 }}
15530 \renewcommand\left@footnoterule{%
15531 \kern-3\p@
15532 \hrule\@width.4\columnwidth
15533 \kern2.6\p@}
15534 \renewcommand\right@footnoterule{%
15535 \kern-3\p@
15536 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15537 \kern2.6\p@}
15538 \renewenvironment{thebibliography}[1]
15539 {\chapter*{\bibname
15540 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
15541 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15542 \bidi@thebibliography@font@hook%
15543 \list{\@biblabel{\@arabic\c@enumiv}}%
15544 {\settowidth\labelwidth{\@biblabel{#1}}%
15545 \leftmargin\labelwidth
15546 \advance\leftmargin\labelsep
15547 \@openbib@code
15548 \usecounter{enumiv}%
15549 \let\p@enumiv\@empty
15550 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
15551 \sloppy\clubpenalty4000\widowpenalty4000%
15552 \sfcode\.\@m}
15553 {\def\@noitemerr
15554 {\@latex@warning{Empty `thebibliography' environment}}}%
15555 \endlist}
15556 \if@titlepage
15557 \renewcommand\maketitle{\begin{titlepage}%
15558 \let\footnotesize\small
15559 \let\right@footnoterule\relax
15560 \let\left@footnoterule\relax
15561 \let\textwidth\footnoterule\relax
15562 \let\footnote\thanks
15563 \null\vfil
15564 \vskip 60\p@

```



```

15565 \begin{center}%
15566   {\LARGE \@title \par}%
15567   \vskip 3em%
15568   {\large
15569     \lineskip .75em%
15570     \begin{tabular}[t]{c}%
15571       \@author
15572     \end{tabular}\par}%
15573   \vskip 1.5em%
15574   {\large \@date \par}%           % Set date in \large size.
15575 \end{center}\par
15576 \@thanks
15577 \vfil\null
15578 \end{titlepage}%
15579 \setcounter{footnote}{0}%
15580 \global\let\thanks\relax
15581 \global\let\maketitle\relax
15582 \global\let\@thanks\@empty
15583 \global\let\@author\@empty
15584 \global\let\@date\@empty
15585 \global\let\@title\@empty
15586 \global\let\title\relax
15587 \global\let\author\relax
15588 \global\let\date\relax
15589 \global\let\and\relax
15590 }
15591 \else
15592 \renewcommand\maketitle{\par
15593   \begingroup
15594     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
15595     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
15596     \long\def\@makefntext##1{\parindent 1em\noindent
15597       \hb@xt@1.8em{%
15598         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
15599     \if@twocolumn
15600       \ifnum \col@number=\@ne
15601         \@maketitle
15602       \else
15603         \twocolumn[\@maketitle]%
15604       \fi
15605     \else
15606       \newpage
15607       \global\@topnum\z@   % Prevents figures from going at top of page.
15608       \@maketitle
15609     \fi
15610     \thispagestyle{plain}\@thanks
15611   \endgroup
15612   \setcounter{footnote}{0}%
15613   \global\let\thanks\relax
15614   \global\let\maketitle\relax
15615   \global\let\@maketitle\relax
15616   \global\let\@thanks\@empty
15617   \global\let\@author\@empty
15618   \global\let\@date\@empty

```



```

15619 \global\let\@title\@empty
15620 \global\let\title\relax
15621 \global\let\author\relax
15622 \global\let\date\relax
15623 \global\let\and\relax
15624 }
15625 \def\@maketitle{%
15626 \newpage
15627 \null
15628 \vskip 2em%
15629 \begin{center}%
15630 \let \footnote \thanks
15631 {\LARGE \@title \par}%
15632 \vskip 1.5em%
15633 {\large
15634 \lineskip .5em%
15635 \begin{tabular}[t]{c}%
15636 \@author
15637 \end{tabular}\par}%
15638 \vskip 1em%
15639 {\large \@date}%
15640 \end{center}%
15641 \par
15642 \vskip 1.5em}
15643 \fi
15644 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
15645 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15646 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15647 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15648 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15649 \renewcommand\theequation{%
15650 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
15651 \renewcommand\thefigure{%
15652 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}
15653 \renewcommand\thetable{%
15654 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}

```

## 88 File fancybox-xetex-bidi.def

```

15655 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
15656 \def\fancy@oval#1#2#3{%
15657 \boxmaxdepth \maxdimen
15658 \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
15659 \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
15660 \@ovxx#1\relax
15661 \advance\@ovxx-\@wholewidth
15662 \@ovyy#2\relax
15663 \advance\@ovyy-\@wholewidth
15664 \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx \@ovxx\else \@ovyy \fi
15665 \advance\@tempdimb-2\p@
15666 \ifdim\@tempdimb>\the@cornersize\relax
15667 \@tempdimb=\the@cornersize
15668 \fi
15669 \@getcirc\@tempdimb

```



```

15670 \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
15671 \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
15672 \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
15673 \@circlefnt
15674 \setbox\@tempboxa\hbox{\beginL%
15675   \if@ovr \@ovvert32\kern -\@tempdima \fi
15676   \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
15677   \if@ovt \@ovhorz \kern -\@ovxx \fi
15678   \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
15679 \advance\@ovdx\@ovro
15680 \advance\@ovdy\@ovro
15681 \advance\@ovxx\@wholewidth
15682 \wd\@tempboxa=\@ovxx
15683 \dp\@tempboxa=\z@}

```

## 89 File fancyhdr-xetex-bidi.def

```

15684 \ProvidesFile{fancyhdr-xetex-bidi.def}[2025/09/03 v1.0 bidi adaptations for fancyhdr package]
15685
15686 \let\f@nch@everypar\everypar
15687
15688 \def\f@nch@parbox@align@hl{\def\f@nch@align@h{\bidi@raggedright}}
15689 \def\f@nch@parbox@align@hr{\def\f@nch@align@h{\bidi@raggedleft}}
15690

```

## 90 File fix2col-xetex-bidi.def

```

15691 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
15692 \def\RTL@outputdblcol{%
15693   \if@firstcolumn
15694     \global\@firstcolumnfalse
15695     \global\setbox\@leftcolumn\copy\@outputbox
15696     \splitmaxdepth\maxdimen
15697     \vbadness\maxdimen
15698     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15699     \toks@{\expandafter{\topmark}}%
15700     \xdef\@firstcoltopmark{\the\toks@}%
15701     \toks@\expandafter{\splitfirstmark}%
15702     \xdef\@firstcolfirstmark{\the\toks@}%
15703     \ifx\@firstcolfirstmark\@empty
15704       \global\let\@setmarks\relax
15705     \else
15706       \gdef\@setmarks{%
15707         \let\firstmark\@firstcolfirstmark
15708         \let\topmark\@firstcoltopmark}%
15709     \fi
15710   \else \global\@firstcolumntrue
15711   \setbox\@outputbox \vbox {\hbox to\textwidth {%
15712     \hskip \columnwidth
15713     \hfil \vrule width\columnseprule \hfil
15714     \hbox to\columnwidth {%
15715       \bidi@firstcolumn@status@write%
15716       \box\@leftcolumn \hss}%
15717     \hskip -\textwidth

```



```

15718 \hbox to\columnwidth{%
15719 \bidi@lastcolumn@status@write%
15720 \box\@outputbox \hss}%
15721 \hskip \columnsep
15722 \hskip \columnwidth }}%
15723 \@combinedblfloats \@setmarks \@outputpage
15724 \begingroup \@dblfloatplacement \@startdblcolumn
15725 \@whiles\if@fcolmade \fi
15726 {\@outputpage \@startdblcolumn }\endgroup
15727 \fi}
15728 \def\LTR@outputdblcol{%
15729 \if@firstcolumn
15730 \global\@firstcolumnfalse
15731 \global\setbox\@leftcolumn\copy\@outputbox
15732 \splitmaxdepth\maxdimen
15733 \vbadness\maxdimen
15734 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15735 \toks@\expandafter{\topmark}%
15736 \xdef\@firstcoltopmark{\the\toks@}%
15737 \toks@\expandafter{\splitfirstmark}%
15738 \xdef\@firstcolfirstmark{\the\toks@}%
15739 \ifx\@firstcolfirstmark\@empty
15740 \global\let\@setmarks\relax
15741 \else
15742 \gdef\@setmarks{%
15743 \let\firstmark\@firstcolfirstmark
15744 \let\topmark\@firstcoltopmark}%
15745 \fi
15746 \else
15747 \global\@firstcolumntrue
15748 \setbox\@outputbox\vbox{%
15749 \hb@xt@\textwidth{%
15750 \hb@xt@\columnwidth{%
15751 \bidi@firstcolumn@status@write%
15752 \box\@leftcolumn \hss}%
15753 \hfil
15754 \vrule \@width\columnseprule
15755 \hfil
15756 \hb@xt@\columnwidth{%
15757 \bidi@lastcolumn@status@write%
15758 \box\@outputbox \hss}}}%
15759 \@combinedblfloats
15760 \@setmarks
15761 \@outputpage
15762 \begingroup
15763 \@dblfloatplacement
15764 \@startdblcolumn
15765 \@whiles\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
15766 \endgroup
15767 \fi}

```

## 91 File fleqn-xetex-bidi.def

```

15768 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX

```



```

15769 \DeclareRobustCommand\{\relax
15770         \ifmmode\@badmath
15771         \else
15772             \begin{trivlist}%
15773             \@beginparpenalty\predisplaypenalty
15774             \@endparpenalty\postdisplaypenalty
15775             \item[]\leavevmode
15776             \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
15777             \hskip\mathindent\bgroup
15778         \fi}
15779 \DeclareRobustCommand\{\relax
15780         \ifmmode
15781             \egroup $\hfil% $
15782             \endL\egroup
15783             \end{trivlist}%
15784         \else \@badmath
15785         \fi}
15786 \renewenvironment{equation}%
15787     {\@beginparpenalty\predisplaypenalty
15788     \@endparpenalty\postdisplaypenalty
15789     \refstepcounter{equation}%
15790     \trivlist \item[]\leavevmode
15791     \hb@xt@\linewidth\bgroup\beginL $\m@th% $
15792     \displaystyle
15793     \hskip\mathindent}%
15794     {$\hfil % $
15795     \displaywidth\linewidth\hbox{\@eqnnum}%
15796     \endL\egroup
15797     \endtrivlist}

```

## 92 File float-xetex-bidi.def

```

15798 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for X
15799 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
15800 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
15801 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
15802 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]%
15803     \expandafter\edef\csname the#1\endcsname{%
15804     \expandafter\noexpand\csname
15805     the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
15806     {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```

## 93 File floatrow-xetex-bidi.def

```

15807 \ProvidesFile{floatrow-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for floatrow package
15808 \RequirePackage{color}
15809 \renewcommand\flnew@within[1]{\@addtoreset{FB@captype}{#1}%
15810     \expandafter\edef\csname theFB@captype\endcsname{%
15811     \expandafter\noexpand\csname
15812     the#1\endcsname\@SepMark\noexpand\arabic{FB@captype}}}%

```

## 94 File flowfram-xetex-bidi.def

```

15813 \ProvidesFile{flowfram-xetex-bidi.def}[2025/01/03 v0.6 bidi adaptations for flowfram package

```



```

15814 \def\@outputdblcol{%
15815 \@nxtcol=\c@thisframe
15816 \c@curpg=\c@page
15817 \@g@tnextcol{\@nxtcol}%
15818 \if@ff@nwpg % next flow frame starts on new page
15819 \global\@firstcolumntrue
15820 \setcolbox\c@thisframe
15821 \if@specialpage
15822 \global\@specialpagefalse
15823 \nameuse{ps@\@specialstyle}\relax
15824 \fi
15825 \if@twoside
15826 \ifodd\count\z@
15827 \let\@thehead\@oddhead
15828 \let\@thefoot\@oddfoot
15829 \else
15830 \let\@thehead\@evenhead
15831 \let\@thefoot\@evenfoot
15832 \fi
15833 \else
15834 \let\@thehead\@oddhead
15835 \let\@thefoot\@oddfoot
15836 \fi
15837 \@begindvi
15838 \@dodynamicthehead\@dodynamicthefoot
15839 \vbadness=\@M
15840 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
15841 \@combinedblfloats
15842 \@outputpage
15843 \advance\c@curpg by -\c@page\relax
15844 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
15845 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}}%
15846 \@outputpage}
15847 \begingroup
15848 \dblfloatplacement
15849 \startdblcolumn
15850 \@whilesw \if@fcolmade \fi
15851 {\@outputpage \@startdblcolumn }\endgroup
15852 \resetst@tics
15853 \resetdyn@mics
15854 \else % still on same page, save contents of box255
15855 \global\@firstcolumnfalse
15856 \setcolbox\c@thisframe
15857 \fi
15858 \global\c@thisframe=\@nxtcol
15859 \setcol{\c@thisframe}\relax
15860 \global\@colht\vsiz
15861 }
15862 \def\@outputpage{%
15863 \begingroup
15864 \let\protect\noexpand
15865 \resetactivechars
15866 \global\let\@if@newlist@if@newlist
15867 \global\@newlistfalse\@parboxrestore

```





```

15868 \global\let\bidibeforeoutputpageshipout\@firstofone
15869 \bidibeforeoutputpageshipouthook
15870 \shipout\vbox{\set@typeset@protect
15871 \aftergroup
15872 \endgroup
15873 \aftergroup
15874 \set@typeset@protect
15875 \reset@font\normalsize
15876 \bidifont@@outputpage
15877 \normalsfcodes
15878 \let\label\@gobble
15879 \let\index\@gobble
15880 \let\glossary\@gobble
15881 \baselineskip\z@skip
15882 \lineskip\z@skip
15883 \lineskiplimit\z@
15884 \vskip\topmargin\moveright\@themargin
15885 \vbox{%
15886 \global\let\bidibeforeheader\@firstofone
15887 \bidibeforeheaderhook
15888 \vskip\headheight
15889 \vskip\headsep
15890 \global\let\bidibeforeoutputboxoutputpage\@firstofone
15891 \bidibeforeoutputboxoutputpagehook
15892 \box\@outputbox
15893 \global\let\bidiafteroutputboxoutputpage\@firstofone
15894 \bidiafteroutputboxoutputpagehook
15895 }%
15896 \global\let\bidiafteroutputpageshipout\@firstofone
15897 \bidiafteroutputpageshipouthook
15898 \global\let\if@newlist\@if@newlist
15899 \stepcounter{page}%
15900 \setcounter{displayedframe}{0}%
15901 \let\firstmark\botmark
15902 \global\let\bidiatendoutputpage\@firstofone
15903 \bidiatendoutputpagehook
15904 }
15905
15906
15907 \newcommand*\bidis@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{\}%
15908 \expandafter\bidicolor\ff@txtcol}}
15909
15910 \newcommand{\bidiff@box}[3]{\@ffbackground{\vbox to#2
15911 {\hb@xt@ #1{\hss{\bidis@tfftextcol #3}\hss}\vss\kern\z@}}}}
15912
15913
15914 \renewcommand*\@docolbox}[1]{%
15915 \edef\ff@frametype{%
15916 \csname @ff@frametype@\romannumeral#1\endcsname}%
15917 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
15918 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
15919 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
15920 \@ff@setoffset{#1}%
15921 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%

```



```

15922 \ifthenelse{\boolean{columnframe\romannumeral#1}}{%
15923 \@@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
15924 {\csname colheight\romannumeral#1\endcsname}{%
15925 \expandafter\box\csname column\romannumeral#1\endcsname}{%
15926 \csname\ff@frametype\endcsname}%
15927 }{%
15928 \bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
15929 {\csname colheight\romannumeral#1\endcsname}{%
15930 \expandafter\box\csname column\romannumeral#1\endcsname}%
15931 }}}
15932 \IfClassLoadedT{book}{%
15933 \renewcommand\theequation
15934 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15935 \renewcommand \thefigure
15936 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15937 \renewcommand \thetable
15938 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15939 \renewcommand \thechapter {\@arabic\c@chapter}
15940 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15941 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15942 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15943 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15944 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
15945 \IfClassLoadedT{report}{%
15946 \renewcommand\theequation
15947 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15948 \renewcommand \thefigure
15949 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15950 \renewcommand \thetable
15951 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15952 \renewcommand \thechapter {\@arabic\c@chapter}
15953 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15954 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15955 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15956 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15957 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
15958 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
15959 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
15960 \else
15961 #2\relax
15962 \fi}

```

## 95 File fnpct-xetex-bidi.def

```

15963 \ProvidesFile{fnpct-xetex-bidi.def}[2025/09/10 v0.1 bidi adaptations for fnpct package for X
15964 \@ifclassloaded{beamer}
15965 {
15966 \AdaptNote \footnote{d<>o+m} [\beamer@mpfn]
15967 {
15968 \IfNoValueTF{#1}
15969 {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[#2]{#3}}}
15970 {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[#2]{#3}}}
15971 }
15972 \AdaptNote \RTLfootnote{d<>o+m} [\beamer@mpfn]

```



```

15973     {
15974         \IfNoValueTF{#1}
15975         {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[2]{#3}}}
15976         {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[2]{#3}}}
15977     }
15978     \AdaptNote \LTRfootnote{d<+m} [\beamer@mpfn]
15979     {
15980         \IfNoValueTF{#1}
15981         {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[2]{#3}}}
15982         {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[2]{#3}}}
15983     }
15984 }
15985 {
15986     \AdaptNote \RTLfootnote {o+m} [\@mpfn]
15987     { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[1]{#2}} }
15988     \AdaptNote \LTRfootnote {o+m} [\@mpfn]
15989     { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[1]{#2}} }
15990 }

```

## 96 File footnote-xetex-bidi.def

```

15991 \ProvidesFile{footnote-xetex-bidi.def}[2024/12/14 v1.3 bidi footnote macros for XeTeX engine]
15992 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
15993 \newif\ifbidi@autofootnoterule
15994 \def\bidi@mpfootnoterule{\footnoterule}
15995 \newcounter{footdir@label}
15996 \renewcommand*{\thefootdir@label}{\footdir@the\value{footdir@label}}
15997 \newcommand*{\footdir@write}{%
15998   \stepcounter{footdir@label}%
15999   \zref@labelbyprops{\thefootdir@label}{abspage}%
16000 }
16001 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
16002 \newtoks\footdir@toks
16003 \newcommand*{\footdir@debug}[1]{%
16004   \iffootdir@debug
16005     \typeout{[footdir] #1}%
16006   \fi
16007 }
16008 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
16009 %  \newcommand*{\footdir@LeftRightElse}{%
16010 %    \ltx@ifundefined{footdir@the\value{zabspage}}{%
16011 %      \footdir@debug{abspage \the\value{zabspage}: else}%
16012 %      \ltx@thirdofthree
16013 %    }{%
16014 %      \if\csname footdir@the\value{zabspage}\endcsname L%
16015 %        \footdir@debug{abspage \the\value{zabspage}: left}%
16016 %        \expandafter\ltx@firstofthree
16017 %      \else
16018 %        \footdir@debug{abspage \the\value{zabspage}: right}%
16019 %        \expandafter\ltx@secondofthree
16020 %      \fi
16021 %    }%
16022 %  }%
16023 %}{%

```



```

16024 \providecommand*{\c@zabspage}{\c@abspage}%
16025 \newcommand*{\footdir@LeftRightElse}{%
16026   \footdir@write
16027   \zifrefundefined{\thefootdir@label}{%
16028     \footdir@debug{abspage ??: else}%
16029     \ltx@thirdofthree
16030   }{%
16031     \edef\footdir@abspage{%
16032       \zref@extractdefault{\thefootdir@label}{abspage}{0}%
16033     }%
16034     \ltx@ifundefined{footdir@\footdir@abspage}{%
16035       \footdir@debug{\footdir@abspage: else}%
16036       \ltx@thirdofthree
16037     }{%
16038       \if\csname footdir@\footdir@abspage\endcsname L%
16039         \footdir@debug{\footdir@abspage: left}%
16040         \expandafter\ltx@firstofthree
16041       \else
16042         \footdir@debug{\footdir@abspage: right}%
16043         \expandafter\ltx@secondofthree
16044       \fi
16045     }%
16046   }%
16047 }%
16048 %}
16049 \newcommand*{\footdir@fntext}[1]{%
16050   \zifrefundefined{\thefootdir@label}{%
16051     }{%
16052       \edef\footdir@name{%
16053         footdir\zref@extractdefault{\thefootdir@label}{abspage}{0}%
16054       }%
16055       \@ifundefined{footdir@name}{%
16056         \expandafter\gdef\csname\footdir@name\endcsname{#1}%
16057       }{}%
16058     }%
16059 }
16060
16061 \newcommand*{\footdir@temp}[3]{%
16062   \@ifdefinable{#1}{%
16063     \let#1#2%
16064     \renewcommand{#2}[1]{%
16065       \footdir@write
16066       \footdir@fntext{#3}%
16067       \stepcounter{footdir@label}%
16068       \footdir@fntext{#3}%
16069       \footdir@toks{##1}%
16070       \footdir@toks\expandafter{%
16071         \the\expandafter\footdir@toks
16072         \expandafter
16073         \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
16074       }%
16075       \expandafter#1\expandafter{\the\footdir@toks}%
16076     }%
16077   }%

```



```

16078 }
16079
16080 \def\right@footnoterule{%
16081   \kern-3\p@
16082   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16083   \kern2.6\p@}
16084 \def\left@footnoterule{\kern-3\p@
16085   \hrule \@width .4\columnwidth \kern 2.6\p@}
16086 \def\textwidth@footnoterule{\kern-3\p@
16087   \hrule \@width \columnwidth \kern 2.6\p@}
16088 \def\leftfootnoterule{%
16089   \bidi@autofootnoterulefalse%
16090   \def\footnoterule{\left@footnoterule}}
16091 \let\LRfootnoterule=\leftfootnoterule
16092 \def\rightfootnoterule{%
16093   \bidi@autofootnoterulefalse%
16094   \def\footnoterule{\right@footnoterule}}
16095 \def\textwidthfootnoterule{%
16096   \bidi@autofootnoterulefalse%
16097   \def\footnoterule{\textwidth@footnoterule}}
16098
16099
16100
16101 \def\auto@footnoterule{%
16102   \footdir@LeftRightElse%
16103   \left@footnoterule%
16104   \right@footnoterule%
16105   \left@footnoterule%
16106 }
16107
16108
16109
16110 \def\autofootnoterule{%
16111   \bidi@autofootnoteruletrue%
16112   \def\footnoterule{\auto@footnoterule}%
16113 }
16114
16115 \newcommand*{\SplitFootnoteRule}{%
16116   \gdef\split@prev{0}
16117   \let\pagefootnoterule\footnoterule
16118   \let\mpfootnoterule\footnoterule
16119   \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
16120   \def\footnoterule{\relax
16121     \ifx \@listdepth\@mplistdepth
16122       \mpfootnoterule
16123     \else
16124       \ifnum\split@prev=\z@
16125         \pagefootnoterule
16126       \else
16127         \splitfootnoterule
16128       \fi
16129       \xdef\split@prev{\the\insertpenalties}%
16130     \fi
16131   }%

```



```

16132 }
16133
16134
16135
16136
16137 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
16138     \protected@xdef\@thefnmark{\thempfn}%
16139     \@footnotemark\@RTLfootnotetext}}
16140 \def\@xRTLfootnote[#1]{%
16141     \begingroup
16142     \csname c@\@mpfn\endcsname #1\relax
16143     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16144     \endgroup
16145     \@footnotemark\@RTLfootnotetext}
16146 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
16147     \protected@xdef\@thefnmark{\thempfn}%
16148     \@footnotemark\@LTRfootnotetext}}
16149 \def\@xLTRfootnote[#1]{%
16150     \begingroup
16151     \csname c@\@mpfn\endcsname #1\relax
16152     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16153     \endgroup
16154     \@footnotemark\@LTRfootnotetext}
16155
16156
16157 \def\setfootnoteRL{\@RTL@footnotetrue}
16158 \def\unsetfootnoteRL{\@RTL@footnotefalse}
16159 \def\setfootnoteLR{\unsetfootnoteRL}
16160
16161 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
16162 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
16163 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
16164
16165 \long\def\@footnotetext#1{\insert\footins{%
16166     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
16167     \reset@font%
16168     \bidi@footnotetext@font% \reset@font\footnotesize
16169     \interlinepenalty\interfootnotelinepenalty
16170     \splittopskip\footnotesep
16171     \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16172     \hsize\columnwidth \@parboxrestore
16173     \protected@edef\@currentlabel{%
16174         \csname p@footnote\endcsname\@thefnmark
16175     }%
16176     \color@begingroup
16177     \@makefnintext{%
16178         \rule{z@footnotesep}{\ignorespaces#1\@finalstrut\strutbox}}%
16179     \color@endgroup}}%
16180
16181
16182 \long\def\@RTLfootnotetext#1{\insert\footins{%
16183     \@RTLtrue%
16184     \reset@font%
16185     \bidi@RTLfootnotetext@font% \reset@font\footnotesize

```



```

16186 \interlinepenalty\interfootnotelinepenalty
16187 \splittopskip\footnotesep
16188 \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16189 \hsize\columnwidth \@parboxrestore
16190 \protected@edef\@currentlabel{%
16191 \csname p@footnote\endcsname\@thefnmark
16192 }%
16193 \color@begingroup
16194 \makefntext{%
16195 \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16196 \color@endgroup}}%
16197
16198 \long\def\@LTRfootnotetext#1{\insert\footins{%
16199 \RTLfalse%
16200 \reset@font%
16201 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16202 \interlinepenalty\interfootnotelinepenalty
16203 \splittopskip\footnotesep
16204 \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16205 \hsize\columnwidth \@parboxrestore
16206 \protected@edef\@currentlabel{%
16207 \csname p@footnote\endcsname\@thefnmark
16208 }%
16209 \color@begingroup
16210 \makefntext{%
16211 \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16212 \color@endgroup}}%
16213
16214 \AtBeginDocument{%
16215 \if@RTL@footnote
16216 \newcommand*{\bidi@footdir@footnote}{R}
16217 \else
16218 \newcommand*{\bidi@footdir@footnote}{L}
16219 \fi%
16220 }
16221
16222 \footdir@temp\footdir@ORG\bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
16223 \footdir@temp\footdir@ORG\bidi@RTLfootnotetext\@RTLfootnotetext{R}%
16224 \footdir@temp\footdir@ORG\bidi@LTRfootnotetext\@LTRfootnotetext{L}%
16225
16226 \long\def\@mpRTLfootnotetext#1{%
16227 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@foot
16228 \global\setbox\@mpfootins\vbox{%
16229 \unvbox\@mpfootins
16230 \RTLtrue
16231 \reset@font%
16232 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16233 \hsize\columnwidth
16234 \@parboxrestore
16235 \protected@edef\@currentlabel
16236 {\csname p@mpfootnote\endcsname\@thefnmark}%
16237 \color@begingroup
16238 \makefntext{%
16239 \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%

```



```

16240     \color@endgroup}}
16241 \long\def\@mpLTRfootnotetext#1{%
16242   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footno
16243     \global\setbox\@mpfootins\vbox{%
16244       \unvbox\@mpfootins
16245       \RTLfalse
16246       \reset@font%
16247       \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16248       \hsize\columnwidth
16249       \@parboxrestore
16250       \protected@edef\@currentlabel
16251         {\csname p@mpfootnote\endcsname\@thefnmark}%
16252       \color@begingroup
16253         \makefntext{%
16254           \rule{z@footnotesep}{\ignorespaces#1\@finalstrut\strutbox}%
16255         \color@endgroup}}
16256 \long\def\@mpfootnotetext#1{%
16257   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\ifRTL@footnote\global\let\bidi@mpfootnote
16258     \global\setbox\@mpfootins\vbox{%
16259       \unvbox\@mpfootins
16260       \ifRTL@footnote\RTLtrue\else\RTLfalse\fi
16261       \reset@font%
16262       \bidi@footnotetext@font% \reset@font\footnotesize
16263       \hsize\columnwidth
16264       \@parboxrestore
16265       \protected@edef\@currentlabel
16266         {\csname p@mpfootnote\endcsname\@thefnmark}%
16267       \color@begingroup
16268         \makefntext{%
16269           \rule{z@footnotesep}{\ignorespaces#1\@finalstrut\strutbox}%
16270       \color@endgroup}}
16271 \def\@iiminipage#1#2[#3]#4{%
16272   \leavevmode
16273   \@pboxswfalse
16274   \ifhboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
16275   \ifRTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
16276   \setlength\@tempdima{#4}%
16277   \def\@mpargs{#1}#2[#3]{#4}}%
16278   \setbox\@tempboxa\vbox\bgroup
16279     \color@begingroup
16280       \hsize\@tempdima
16281       \textwidth\hsize \columnwidth\hsize
16282       \@parboxrestore
16283       \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
16284       \let\@footnotetext\@mpfootnotetext
16285       \let\@LTRfootnotetext\@mpLTRfootnotetext
16286       \let\@RTLfootnotetext\@mpRTLfootnotetext
16287       \let\@listdepth\@mplistdepth \@mplistdepth\z@
16288       \@minipagerestore
16289       \setminipage}
16290 \def\endminipage{%
16291   \par
16292   \unskip
16293   \ifvoid\@mpfootins\else

```





```

16294 \vskip\skip\@mpfootins
16295 \normalcolor
16296 \bidi@mpfootnoterule
16297 \unvbox\@mpfootins
16298 \fi
16299 \@minipagefalse %% added 24 May 89
16300 \color@endgroup
16301 \egroup
16302 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
16303 \def\LTRthanks#1{\footnotemark
16304 \protected@xdef\@thanks{\@thanks
16305 \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
16306 }
16307 \def\LTRfootnotetext{%
16308 \ifnextchar [\@xLTRfootnotenext
16309 {\protected@xdef\@thefnmark{\thempfn}%
16310 \@LTRfootnotetext}}
16311 \def\@xLTRfootnotenext[#1]{%
16312 \begingroup
16313 \csname c@\@mpfn\endcsname #1\relax
16314 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16315 \endgroup
16316 \@LTRfootnotetext}
16317 \def\RTLthanks#1{\footnotemark
16318 \protected@xdef\@thanks{\@thanks
16319 \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
16320 }
16321 \let\@thanks\@empty
16322 \def\RTLfootnotetext{%
16323 \ifnextchar [\@xRTLfootnotenext
16324 {\protected@xdef\@thefnmark{\thempfn}%
16325 \@RTLfootnotetext}}
16326 \def\@xRTLfootnotenext[#1]{%
16327 \begingroup
16328 \csname c@\@mpfn\endcsname #1\relax
16329 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16330 \endgroup
16331 \@RTLfootnotetext}
16332 \leftfootnoterule

```

## 97 File footnotebackref-xetex-bidi.def

```

16333 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnote]
16334 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
16335 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
16336
16337 \renewcommand*\LTRfootnote{%
16338 \refstepcounter{BackrefHyperFootnoteCounter}%
16339 \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16340 \label{\BackrefFootnoteTag}%
16341 \@ifnextchar [\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
16342
16343 \renewcommand*\RTLfootnote{%
16344 \refstepcounter{BackrefHyperFootnoteCounter}%

```



```

16345 \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16346 \label{\BackrefFootnoteTag}%
16347 \@ifnextchar[\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote]
16348 \newcommand\Backref@HyperLTRFootnote[1]{%
16349 \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
16350
16351 \newcommand\Backref@HyperRTLFootnote[1]{%
16352 \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
16353
16354 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
16355 \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
16356
16357 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
16358 \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
16359
16360 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
16361 \ifFootnoteBackref@numberlinked
16362 \renewcommand{\footfootmark}{%
16363 \ifdim\footmarkwidth < \z@
16364 \llap{\hb@xt@ -\footmarkwidth{%
16365 \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16366 \hspace*{-\footmarkwidth}}}%
16367 \else
16368 \ifdim\footmarkwidth = \z@
16369 {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16370 \else
16371 \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16372 \fi
16373 \fi}
16374 \renewcommand{\LTRfootfootmark}{%
16375 \ifdim\footmarkwidth < \z@
16376 \llap{\hb@xt@ -\footmarkwidth{%
16377 \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16378 \hspace*{-\footmarkwidth}}}%
16379 \else
16380 \ifdim\footmarkwidth = \z@
16381 {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16382 \else
16383 \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16384 \fi
16385 \fi}
16386 \renewcommand{\RTLfootfootmark}{%
16387 \ifdim\footmarkwidth < \z@
16388 \llap{\hb@xt@ -\footmarkwidth{%
16389 \hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16390 \hspace*{-\footmarkwidth}}}%
16391 \else
16392 \ifdim\footmarkwidth = \z@
16393 {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16394 \else
16395 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16396 \fi
16397 \fi}
16398 \fi

```



16399 }

## 98 File framed-xetex-bidi.def

```
16400 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for
16401 \renewcommand\TitleBarFrame[3] [] {\begingroup
16402   \ifx\delimiter#1\delimiter
16403     \let\TF@conlab\@empty
16404   \else
16405     \def\TF@conlab{% continuation label
16406       \nointerlineskip
16407       \smash{\rlap{\kern\wd\@tempboxa\kern\fb@rule\kern\fb@sep #1}}}%
16408   \fi
16409   %\let\TF@savecolor\current@color
16410   \textcolor{TF@FrameColor}{%
16411     \CustomFBox
16412     {\TF@Title{#2}}{\TF@conlab}}%
16413     \fb@rule\fb@rule\fb@rule\fb@rule
16414     %{\let\current@color\TF@savecolor\set@color #3}%
16415     {\normalcolor #3}%
16416   }\endgroup
16417 }
16418 \renewenvironment{titled-frame}[1] {%
16419   \def\FrameCommand{\fb@sep8pt\fb@rule2pt
16420     \TitleBarFrame{\textbf{#1}}}%
16421   \def\FirstFrameCommand{\fb@sep8pt\fb@rule2pt
16422     \TitleBarFrame[{\if@RTL\blacktriangleleft\else\blacktriangleright\fi}]{\textbf{#1}}}%
16423   \def\MidFrameCommand{\fb@sep8pt\fb@rule2pt
16424     \TitleBarFrame[{\if@RTL\blacktriangleleft\else\blacktriangleright\fi}]{\textbf{#1} (con
16425   \def\LastFrameCommand{\fb@sep8pt\fb@rule2pt
16426     \TitleBarFrame{\textbf{#1} (cont)}}}%
16427   \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
16428 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
16429 % could interfere with the width measurement.
16430 {\endMakeFramed}
16431 \chardef\FrameRestore=\catcode`\| % for debug
16432 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
16433 \def\fb@put@frame#1#2{\relax
16434   \ifdim\pagegoal=\maxdimen \pagegoal\vspace \fi
16435   | \message{===== Entering putframe =====}~J
16436   | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal.}%
16437   \ifinner
16438     \fb@putboxa#1%
16439     \fb@afterframe
16440   \else
16441     \dimen@\pagegoal \advance\dimen@-\pagetotal % natural space left on page
16442     \ifdim\dimen@<2\baselineskip % Too little room on page
16443     | \message{Page has only \the\dimen@\space room left; eject.}%
16444     | \eject \fb@adjheight \fb@put@frame#1#2%
16445     \else % there's appreciable room left on the page
16446       \fb@sizeofframe#1%
16447       | \message{\string\pagetotal=\the\pagetotal,
16448       | \string\pagegoal=\the\pagegoal,
16449       | \string\pagestretch=\the\pagestretch,
```



```

16450 |         \string\pageshrink=\the\pageshrink,
16451 |         \string\fb@frh=\the\fb@frh. \space}
16452 | \message{^^JBox of size \the\ht\@tempboxa\space}%
16453 | \begingroup % temporarily set \dimen@ to be...
16454 | \advance\dimen@.8\pageshrink % maximum space available on page
16455 | \advance\dimen@-\fb@frh\relax % max space available for frame's contents
16456 |%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
16457 | \expandafter\endgroup
16458 | % expand \ifdim, then restore \dimen@ to real room left on page
16459 | \ifdim\dimen@>\ht\@tempboxa % whole box does fit
16460 |     \message{fits in \the\dimen@. }%
16461 |     % ToDo: Change this to use vsplit anyway to capture the marks
16462 |     % MERGE THIS WITH THE else CLAUSE!!!
16463 |     \fb@putboxa#1%
16464 |     \fb@afterframe
16465 | \else % box must be split
16466 |     \message{must be split to fit in \the\dimen@. }%
16467 |     % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
16468 |     \fb@sizeofframe#2%
16469 |     \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
16470 |         \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
16471 |         \kern137sp\kern-137sp\penalty-30
16472 |         \unvbox\@tempboxa}%
16473 |     \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
16474 |         \splittopskip\the\splittopskip}%
16475 |     \boxmaxdepth\z@ \splittopskip\z@
16476 | \message{^^JPadded box of size \the\ht\@tempboxa\space split to \the\dimen@}%
16477 | % Split box here
16478 | \setbox\@tw@vsplit\@tempboxa to\dimen@
16479 | \toks99\expandafter{\splittopmark}%
16480 | \toks98\expandafter{\splitbotmark}%
16481 | \message{Marks are: \the\toks99, \the\toks98. }%
16482 | \setbox\@tw@\vbox{\unvbox\@tw@}% natural-sized
16483 | \message{Natural height of split box is \the\ht\@tw@, leaving
16484 |     \the\ht\@tempboxa\space remainder. }%
16485 | % If the split-to size > (\vsize-\topskip), then set box to full size.
16486 | \begingroup
16487 | \advance\dimen@\topskip
16488 | \expandafter\endgroup
16489 | \ifdim\dimen@>\pagegoal
16490 |     \message{Frame is big -- Use up the full column. }%
16491 |     \dimen@ii\pagegoal
16492 |     \advance\dimen@ii -\topskip
16493 |     \advance\dimen@ii \FrameHeightAdjust\relax
16494 | \else % suspect this is implemented incorrectly:
16495 |     % If the split-to size > feasible room_on_page, rebox it smaller.
16496 |     \advance\dimen@.8\pageshrink
16497 |     \ifdim\ht\@tw@>\dimen@
16498 |         \message{Box too tall; rebox it to \the\dimen@. }%
16499 |         \dimen@ii\dimen@
16500 |     \else % use natural size
16501 |         \dimen@ii\ht\@tw@
16502 |     \fi
16503 | \fi

```



```

16504      % Re-box contents to desired size \dimen@ii
16505      \advance\dimen@ii -\fb@frh
16506      \setbox\tw@\vbox to\dimen@ii \bgroup
16507      % remove simulated frame and page flexibility:
16508      \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
16509      \unvbox\tw@ \unpenalty\unpenalty
16510      \ifdim\lastkern=-137sp % whole box went to next page
16511 |      \message{box split at beginning! }%
16512      % need work here???
16513      \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
16514      \fb@adjheight
16515      \fb@put@frame#1#2% INSERTED ???
16516      \else % Got material split off at the head
16517      \egroup \fb@resto@set
16518      \ifvoid\@tempboxa % it all fit after all
16519 |      \message{box split at end! }%
16520      \setbox\@tempboxa\box\tw@
16521      \fb@putboxa#1%
16522      \fb@afterframe
16523      \else % it really did split
16524 |      \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
16525      \ifdim\wd\tw@>\z@
16526      \wd\tw@\wd\@tempboxa
16527      \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
16528      \else
16529 |      \message{Zero width means likely blank. Don't frame it (guess)}%
16530      \box\tw@
16531      \fi
16532      \hrule \@height\z@ \@width\hsize
16533      \eject
16534      \fb@adjheight
16535      \fb@put@frame\LastFrameCommand\MidFrameCommand
16536      \fi\fi\fi\fi\fi
16537 }
16538 \def\fb@putboxa#1{%
16539   \ifvoid\@tempboxa
16540     \PackageWarning{framed}{Boxa is void -- discard it. }%
16541   \else
16542 |     \message{Frame and place boxa. }%
16543 |     %{\showoutput\showbox\@tempboxa}%
16544     \centerline{#1{\hboxL{\box\@tempboxa}}}%
16545   \fi
16546 }
16547 \catcode`\|=\FrameRestore
16548 \def\FrameRestore{%
16549   \let\if@nobreak\iffalse
16550   \let\if@noskipsec\iffalse
16551   \let\-\@dischyph
16552   \let'\@acci\let\` \@accii\let\=\@acciii
16553   % \message{FrameRestore:
16554   %   \@totalleftmargin=\the \@totalleftmargin,
16555   %   \rightmargin=\the\rightmargin,
16556   %   \@listdepth=\the\@listdepth. }%
16557   % Test if we are in a list (or list-like paragraph)

```



```

16558 \ifnum \ifdim \@totalleftmargin>\z@ 1\fi
16559 \ifdim \rightmargin>\z@ 1\fi
16560 \ifnum \@listdepth>\z@ 1\fi 0>\z@
16561 % \message{In a list: \linewidth=\the\linewidth, \@totalleftmargin=\the\@totalleftmargin,
16562 % \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
16563 % \labelwidth=\the\labelwidth. }%
16564 \@setminipage % snug fit around the item
16565 % Now try to propagate changes of width from \hsize to list parameters.
16566 % This is deficient, but a more advanced way to indicate modification to text
16567 % dimensions is not (yet) provided; in particular, no separate left/right
16568 % adjustment.
16569 \advance\linewidth-\columnwidth \advance\linewidth\hsize
16570 \parshape\@ne \@totalleftmargin \linewidth
16571 \else % Not in list
16572 \linewidth=\hsize
16573 %\message{No list, set \string\linewidth=\the\hsize. }%
16574 \fi
16575 \sloppy
16576 }

```

## 99 File ftnright-xetex-bidi.def

```

16577 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
16578
16579 \def\prepare@bidi@copyins{%
16580 \global\bidircol@copyinsskip\skip\@bidi@copyins@
16581 \global\skip\@bidi@copyins@\z@
16582 \global\count\@bidi@copyins@\z@
16583 \global\dimen\@bidi@copyins@\textheight}
16584
16585 \newskip\bidircol@copyinsskip
16586
16587 \def\LTR@outputdblcol{%
16588 \if@firstcolumn
16589 \global\@firstcolumnfalse
16590 \global\setbox\@leftcolumn\copy\@outputbox
16591 \global\count\footins\@m
16592 \global\skip\footins\rcol@footinsskip
16593 \global\count\@bidi@copyins@\@m
16594 \global\skip\@bidi@copyins@\bidircol@copyinsskip
16595 \splitmaxdepth\maxdimen
16596 \vbadness\maxdimen
16597 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16598 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16599 \toks@\expandafter{\topmark}%
16600 \xdef\@firstcoltopmark{\the\toks@}%
16601 \toks@\expandafter{\splitfirstmark}%
16602 \xdef\@firstcolfirstmark{\the\toks@}%
16603 \ifx\@firstcolfirstmark\@empty
16604 \global\let\@setmarks\relax
16605 \else
16606 \gdef\@setmarks{%
16607 \let\firstmark\@firstcolfirstmark
16608 \let\topmark\@firstcoltopmark}%

```



```

16609 \fi
16610 \else
16611 \preparefootins
16612 \prepare@bidi@copyins
16613 \global\@firstcolumntrue
16614 \setbox\@outputbox\vbox{%
16615 \hb@xt@\textwidth{%
16616 \hb@xt@\columnwidth{%
16617 \bidi@firstcolumn@status@write%
16618 \box\@leftcolumn \hss}%
16619 \hfil
16620 {\normalcolor\vrule \@width\columnseprule}%
16621 \hfil
16622 \hb@xt@\columnwidth{%
16623 \bidi@lastcolumn@status@write%
16624 \box\@outputbox \hss}}}%
16625 \@combinedblfloats
16626 \@setmarks
16627 \@outputpage
16628 \begingroup
16629 \@dblfloatplacement
16630 \@startdblcolumn
16631 \@whiles\if@fcolmade \fi{\@outputpage
16632 \@startdblcolumn}%
16633 \endgroup
16634 \fi}%
16635
16636 \def\RTL@outputdblcol{%
16637 \if@firstcolumn
16638 \global\@firstcolumnfalse
16639 \global\setbox\@leftcolumn\copy\@outputbox
16640 \global\count\footins\@m
16641 \global\skip\footins\rcol@footinsskip
16642 \global\count\@bidi@copyins\@m
16643 \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
16644 \splitmaxdepth\maxdimen
16645 \vbadness\maxdimen
16646 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16647 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16648 \toks@\expandafter{\topmark}%
16649 \xdef\@firstcoltopmark{\the\toks@}%
16650 \toks@\expandafter{\splitfirstmark}%
16651 \xdef\@firstcolfirstmark{\the\toks@}%
16652 \ifx\@firstcolfirstmark\@empty
16653 \global\let\@setmarks\relax
16654 \else
16655 \gdef\@setmarks{%
16656 \let\firstmark\@firstcolfirstmark
16657 \let\topmark\@firstcoltopmark}%
16658 \fi
16659 \else
16660 \preparefootins
16661 \prepare@bidi@copyins
16662 \global\@firstcolumntrue

```



```

16663 \setbox\@outputbox\vbox{%
16664 \hb@xt@\textwidth{%
16665 \hskip \columnwidth
16666 \hfil
16667 {\normalcolor\vrule \@width\columnseprule}%
16668 \hfil
16669 \hb@xt@\columnwidth{%
16670 \bidi@firstcolumn@status@write%
16671 \box\@leftcolumn \hss}%
16672 \hskip -\textwidth
16673 \hb@xt@\columnwidth{%
16674 \bidi@lastcolumn@status@write%
16675 \box\@outputbox \hss}%
16676 \hskip \columnsep
16677 \hskip \columnwidth }}%
16678 \@combinedblfloats
16679 \@setmarks
16680 \@outputpage
16681 \begingroup
16682 \@dblfloatplacement
16683 \@startdblcolumn
16684 \@whiles\if@colmade \fi{\@outputpage
16685 \@startdblcolumn}%
16686 \endgroup
16687 \fi}%
16688
16689 \def\@startcolumn{%
16690 \ifx\@deferlist\@empty
16691 \global\@fcolmadefalse
16692 \global\@colroom\@colht
16693 \else
16694 \ifvoid\footins\else
16695 \ftn@amount\ht\footins
16696 \advance\ftn@amount\dp\footins
16697 \advance\ftn@amount\skip\footins
16698 \fi
16699 \ifvoid\@bidi@copyins\else
16700 \bidi@copyins@amount\ht\@bidi@copyins@
16701 \advance\bidi@copyins@amount\dp\@bidi@copyins@
16702 \advance\bidi@copyins@amount\skip\@bidi@copyins@
16703 \fi
16704 \global\advance\@colht-\ftn@amount
16705 \global\advance\@colht-\bidi@copyins@amount
16706 \global\@colroom\@colht
16707 \@xstartcol
16708 \global\advance\@colht\ftn@amount
16709 \global\advance\@colroom\ftn@amount
16710 \global\advance\@colht\bidi@copyins@amount
16711 \global\advance\@colroom\bidi@copyins@amount
16712 \fi
16713 \if@fcolmade
16714 \setbox\@cclv\box\@outputbox
16715 \@makecol
16716 \else

```





```

16717 \ifvoid\footins\else
16718 \insert\footins{\unvbox\footins}\fi
16719 \ifvoid\@bidi@copyins\else
16720 \insert\@bidi@copyins{\unvbox\@bidi@copyins}\fi
16721 \fi}
16722
16723 \newdimen\@bidi@copyins@amount
16724
16725 \def\@makecol{\if@firstcolumn
16726 \setbox\@outputbox\box\@cclv
16727 \if@twocolumn \else
16728 \ifvoid\footins \else
16729 \@latexerr{ftnright package
16730 used in one-column mode}%
16731 {The ftnright package was designed to
16732 work with LaTeX's standard^^Jtwocolumn
16733 option. It does *not* work with the
16734 multicol package.^^JSo please specify
16735 `twocolumn' in the
16736 \noexpand\documentclass command.}%
16737 \shipout\box\footins \fi
16738 \ifvoid\@bidi@copyins\else
16739 \@latexerr{ftnright package
16740 used in one-column mode}%
16741 {The ftnright package was designed to
16742 work with LaTeX's standard^^Jtwocolumn
16743 option. It does *not* work with the
16744 multicol package.^^JSo please specify
16745 `twocolumn' in the
16746 \noexpand\documentclass command.}%
16747 \shipout\box\@bidi@copyins\fi\fi
16748 \ifnum\insertpenalties>\z@
16749 \@latexerr{ftnright package
16750 scrambled footnotes}%
16751 {There is too much footnote material in
16752 the first column and ftnright^^Jis
16753 unable to cope with this.^^JYou need
16754 to reduce the amount to get a properly
16755 formatted page.}%
16756 \fi
16757 \else
16758 \ifvoid\footins
16759 \ifvoid\@bidi@copyins\
16760 \setbox\@outputbox\box\@cclv
16761 \else
16762 \setbox\@outputbox\vbox
16763 {\ifvoid\@cclv \else
16764 \unvbox\@cclv
16765 \vskip \skip\@bidi@copyins\
16766 \fi
16767 \color@begingroup
16768 \normalcolor
16769 \unvbox \@bidi@copyins\
16770 \color@endgroup}%

```



```

16771 \fi
16772 \else
16773 \setbox\@outputbox\vbox
16774 {\ifvoid\@cclv \else
16775 \unvbox\@cclv
16776 \vskip\skip\footins\fi
16777 \color@begingroup
16778 \normalcolor
16779 \footnoterule\unvbox\footins
16780 \color@endgroup
16781 \ifvoid\@bidi@copyins@
16782 \else
16783 \vskip \skip\@bidi@copyins@
16784 \color@begingroup
16785 \normalcolor
16786 \unvbox \@bidi@copyins@
16787 \color@endgroup
16788 \fi
16789 }%
16790 \fi
16791 \fi
16792 \xdef\@freelist{\@freelist\@midlist}%
16793 \global \let \@midlist \@empty
16794 \@combinefloats
16795 \ifvbox\@kludgeins
16796 \@makespecialcolbox
16797 \else
16798 \setbox\@outputbox\vbox to\@colht
16799 {\boxmaxdepth\maxdepth
16800 \@texttop
16801 \@tempdima\dp\@outputbox
16802 \unvbox\@outputbox
16803 \vskip-\@tempdima
16804 \@textbottom}%
16805 \fi
16806 \global\maxdepth\@maxdepth}
16807
16808 \let\leftfootnoterule\@empty
16809 \let\rightfootnoterule\@empty
16810 \let\textwidthfootnoterule\@empty
16811 \let\autofootnoterule\@empty
16812 \let\footnoterule\@empty
16813 \long\def\@makefntext#1{\parindent 1em
16814 \noindent\hbox to 2em{}}%
16815 \llap{\@thefnmark\hbox{.}\,},\,}#1}
16816
16817 \setlength{\skip\@bidi@copyins@}
16818 {10pt plus 5pt minus 3pt}
16819 \AtBeginDocument{\prepare@bidi@copyins}

```

## 100 File graphicx-xetex-bidi.def

```

16820 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
16821 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%

```



```

16822 \Grot@setangle{#1}%
16823 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL
16824 \Grot@x\z@
16825 \Grot@y\z@
16826 \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
16827 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16828 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\fi
16829 \Grot@x\width \divide\Grot@x\tw@
16830 \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
16831 \setkeys{Grot}{#1}%
16832 \setbox\z@\box\@tempboxa
16833 \Grot@setangle{#2}%
16834 \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
16835 \@end@tempboxa}
16836 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16837 \leavevmode
16838 \def\Gscale@x{#1}\def\Gscale@y{#2}%
16839 \setbox\z@\hbox{#3}%
16840 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16841 \ifdim#2\p<\z@
16842 \ht\tw@-#2\dp\z@
16843 \dp\tw@-#2\ht\z@
16844 \else
16845 \ht\tw@#2\ht\z@
16846 \dp\tw@#2\dp\z@
16847 \fi
16848 \ifdim#1\p<\z@
16849 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
16850 \else
16851 \wd\tw@#1\wd\z@
16852 \box\tw@
16853 \fi\ifmmode\else\if@RTL\endL\fi\fi}
16854 \def\Gin@iii[#1,#2][#3,#4]#5{%
16855 \begingroup
16856 \ifmmode\else\if@RTL\beginL\fi\fi
16857 \Gin@bboxtrue
16858 \Gin@defaultbp\Gin@llx{#1}%
16859 \Gin@defaultbp\Gin@lly{#2}%
16860 \Gin@defaultbp\Gin@urx{#3}%
16861 \Gin@defaultbp\Gin@ury{#4}%
16862 \Gin@include@graphics{#5}%
16863 \ifmmode\else\if@RTL\endL\fi\fi
16864 \endgroup}
16865 \def\Gin@ii[#1]#2{%
16866 \def\@tempa{[]}\def\@tempb{#2}%
16867 \ifx\@tempa\@tempb
16868 \def\@tempa{\Gin@iii[#1] []}%
16869 \expandafter\@tempa
16870 \else
16871 \begingroup
16872 \ifmmode\else\if@RTL\beginL\fi\fi
16873 \@tempswafalse
16874 \toks@{\Gin@include@graphics{#2}}%
16875 \setkeys{Gin}{#1}%

```



```

16876      \Gin@esetsize
16877      \the\toks@
16878      \ifmmode\else\if@RTL\endL\fi\fi
16879      \endgroup
16880      \fi}
16881 \def\reflectbox{\bidiGscale@box-1[1]}
16882 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16883   \leavevmode
16884   \def\Gscale@x{#1}\def\Gscale@y{#2}%
16885   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
16886   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16887   \ifdim#2\p@<\z@
16888     \ht\tw@-#2\dp\z@
16889     \dp\tw@-#2\ht\z@
16890   \else
16891     \ht\tw@#2\ht\z@
16892     \dp\tw@#2\dp\z@
16893   \fi
16894   \ifdim#1\p@<\z@
16895     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
16896   \else
16897     \wd\tw@#1\wd\z@
16898     \box\tw@
16899   \fi\ifmmode\else\if@RTL\endL\fi\fi}
16900 \def\scalebox#1{%
16901   \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}
16902 \def\resizebox{%
16903   \leavevmode
16904   \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
16905 \def\bidiGscale@@box#1#2#3{%
16906   \let\@tempa\Gin@exclamation
16907   \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
16908   \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
16909   \ifx\@tempb\@tempa
16910     \ifx\@tempc\@tempa
16911       \toks@{\mbox}%
16912     \else
16913       \toks@{\bidiGscale@box@dd{#3}#1}%
16914     \fi
16915   \else
16916     \ifx\@tempc\@tempa
16917       \toks@{\bidiGscale@box@dd{#2}\width}%
16918     \else
16919       \toks@{\bidiGscale@box@dddd{#2}\width{#3}#1}%
16920     \fi
16921   \fi
16922   \the\toks@}
16923 \long\def\bidiGscale@box@dd#1#2#3{%
16924   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
16925   \setlength\@tempdima{#1}%
16926   \setlength\@tempdimb{#2}%
16927   \Gscale@div\@tempa\@tempdima\@tempdimb
16928   \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
16929   \@end@tempboxa}

```



```

16930 \long\def\ bidiGscale@box@dddd#1#2#3#4#5{%
16931   \@begin@tempboxa\hbox{\ifmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\fi
16932     \setlength\@tempdima{#1}%
16933     \setlength\@tempdimb{#2}%
16934     \Gscale@div\@tempa\@tempdima\@tempdimb
16935     \setlength\@tempdima{#3}%
16936     \setlength\@tempdimb{#4}%
16937     \Gscale@div\@tempb\@tempdima\@tempdimb
16938     \ifGin@iso
16939       \ifdim\@tempa\p>\@tempb\p@
16940         \let\@tempa\@tempb
16941       \else
16942         \let\@tempb\@tempa
16943       \fi
16944     \fi
16945     \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
16946   \@end@tempboxa}

```

## 101 File geometry-xetex-bidi.def

```

16947 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
16948 \renewcommand*{\Gm@vrules@mpi}{%
16949   \if@RTLmain%
16950     \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16951       \llap{\Gm@vrule}\ignorespaces
16952       \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16953       \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
16954   \else%
16955     \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16956       \hskip \textwidth\Gm@vrule\hskip \marginparsep
16957       \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
16958 \renewcommand*{\Gm@vrules@mpii}{%
16959   \if@RTLmain%
16960     \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16961       \hskip \textwidth\Gm@vrule\hskip \marginparsep
16962       \llap{\Gm@vrule}\hfil\Gm@vrule}%
16963   \else%
16964     \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16965       \llap{\Gm@vrule}\ignorespaces
16966       \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16967       \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
16968 \bidi@patchcmd{\Gm@pageframes}{%
16969   \ifodd\count\z@
16970     \let\@themargin\oddsidemargin
16971   \else
16972     \let\@themargin\evensidemargin
16973   \fi
16974 }{%
16975   \ifodd\count\z@
16976     \if@RTLmain
16977       \let\@themargin\evensidemargin
16978     \else
16979       \let\@themargin\oddsidemargin
16980     \fi

```



```

16981     \else
16982     \if@RTLmain
16983     \let\@themargin\oddsidemargin
16984     \else
16985     \let\@themargin\evensidemargin
16986     \fi
16987 \fi
16988 }{}{}

```

## 102 File hvfloat-xetex-bidi.def

```

16989 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package f
16990 \def\do@hvFloat[#1]#2#3{%
16991 \def\hv@shortCap{#1}
16992 \def\hv@longCap{#2}
16993 \def\hv@label{#3}
16994 %\newcommand*{\hvFloat}[5][[]]{%
16995 % #1: keyvalues
16996 % #2: type figure | table | ...
16997 % #3: float contents
16998 % #4: short caption
16999 % #5: caption
17000 % #6: label
17001 % \setDefault%
17002 % \def\@tempa{#1}%
17003 % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
17004 \def\@tempa{90}%
17005 \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
17006 \else \setlength{\hvMaxCapWidth}{\linewidth}
17007 \fi
17008 %
17009 % First we save the object in \hvObjectBox
17010 %
17011 \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
17012 \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
17013 \else
17014 \savebox{\hvObjectBox}{%
17015 \rotatebox{\hvSet@objectAngle}{%
17016 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
17017 \fi
17018 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
17019 %
17020 % Now we save the caption with its defined \hvCapWidth
17021 %
17022 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
17023 \else
17024 \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
17025 \else
17026 \setlength{\hvCapWidth}{\hvObjectWidth}
17027 \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
17028 \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
17029 \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
17030 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
17031 \else

```



```

17032 \setlength{\hvCapWidth}{\hvMaxCapWidth}
17033 \fi
17034 \fi
17035 \fi
17036 %
17037 % now we have the object and the caption with the right
17038 % rotated angles saved in boxes
17039 %
17040 \def\fps@figure{\hvSet@floatPos}
17041 \ifhv@nonFloat\begin{group}% Start the nonfloat part
17042 \else \begin{\hv@floatType}% Start the floating environment
17043 \fi%
17044 \saveCaptionSkip% we put this space ourselves
17045 \ifx\hvSet@capAngle\hv@Width % need rotation?
17046 \sbox{\hvCaptionBox}{%
17047 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17048 \ifhv@nonFloat%
17049 \ifhv@onlyText#2%
17050 \else%
17051 \ifx\hv@floatType\hv@figure
17052 \ifx\relax#1\relax \figcaption{#2}\else\figcaption{#1}{#2}\fi
17053 \else
17054 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption{#1}{#2}\fi%
17055 \fi
17056 \fi
17057 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption{#1}{#2}\fi%
17058 \fi%
17059 \label{#3}%
17060 \end{minipage}%
17061 }%
17062 \else%
17063 \sbox{\hvCaptionBox}{%
17064 \rotatebox{\hvSet@capAngle}{%
17065 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17066 \ifhv@nonFloat%
17067 \ifhv@onlyText#2%
17068 \else%
17069 \ifx\hv@floatType\hv@figure
17070 \ifx\relax#1\relax \figcaption{#2}\else\figcaption{#1}{#2}\fi
17071 \else
17072 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption{#1}{#2}\fi%
17073 \fi
17074 \fi
17075 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption{#1}{#2}\fi%
17076 \fi%
17077 \label{#3}%
17078 \end{minipage}%
17079 }%
17080 }%
17081 \fi%
17082 %%
17083 \restoreCaptionSkip% save old values
17084 \ifx\hvSet@objectPos\hv@Right\bidiraggedleft%
17085 \else%

```



```

17086 \ifx\hvSet@ObjectPos\hv@Center
17087 \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
17088 \fi%
17089 \fi%
17090 %
17091 % to rotate object and caption together, we save all in another box
17092 % the caption comes first, if its on the left or the top
17093 %
17094 \savebox{\@tempboxa}{%
17095 \ifx\hvSet@capPos\hv@Left % caption on left side
17096 \if@RTL%
17097 \ifx\hvSet@capVPos\hv@Center%
17098 \ifhv@fbox
17099 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17100 \else
17101 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17102 \fi%
17103 \hspace{\hvSet@floatCapSep pt}%
17104 \ifhv@fbox
17105 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17106 \else
17107 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17108 \fi%
17109 \else%
17110 \ifx\hvSet@capVPos\hv@Top
17111 \ifhv@fbox
17112 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17113 \else
17114 \raisebox{-\height}{\usebox{\hvObjectBox}}
17115 \fi%
17116 \hspace{\hvSet@floatCapSep pt}%
17117 \ifhv@fbox
17118 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17119 \else
17120 \raisebox{-\height}{\usebox{\hvCaptionBox}}
17121 \fi
17122 \else
17123 \ifhv@fbox
17124 \fbox{\usebox{\hvObjectBox}}%
17125 \else
17126 \usebox{\hvObjectBox}%
17127 \fi
17128 \hspace{\hvSet@floatCapSep pt}%
17129 \ifhv@fbox
17130 \fbox{\usebox{\hvCaptionBox}}%
17131 \else
17132 \usebox{\hvCaptionBox}%
17133 \fi%
17134 \fi%
17135 \fi%
17136 \else% not RTL
17137 \ifx\hvSet@capVPos\hv@Center%
17138 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17139 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%

```





```

17140     \fi%
17141     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17142     \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17143     \else      \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17144     \fi%
17145 \else%
17146     \ifx\hvSet@capVPos\hv@Top % caption at top
17147     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17148     \else      \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17149     \fi
17150     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17151     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17152     \else      \raisebox{-\height}{\usebox{\hvObjectBox}}%
17153     \fi%
17154     \else% caption on bottom
17155     \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
17156     \else\usebox{\hvCaptionBox}
17157     \fi%
17158     \hspace{\hvSet@floatCapSep pt}%
17159     \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
17160     \else      \usebox{\hvObjectBox}
17161     \fi%
17162     \fi%
17163 \fi% end of RTL
17164 \fi%
17165 \else
17166     \ifx\hvSet@capPos\hv@Top
17167     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17168     \begin{minipage}{\wd\hvCaptionBox}
17169     \else
17170     \begin{minipage}{\wd\hvObjectBox}
17171     \fi
17172     \centering
17173     \ifhv@fbox
17174     \fbbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
17175     \fbbox{\usebox{\hvObjectBox}}
17176     \else
17177     \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
17178     \usebox{\hvObjectBox}
17179     \fi%
17180     \end{minipage}
17181     \else
17182     \ifx\hvSet@capPos\hv@Bottom
17183     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17184     \begin{minipage}{\wd\hvCaptionBox}
17185     \else
17186     \begin{minipage}{\wd\hvObjectBox}
17187     \fi
17188     \centering
17189     \ifhv@fbox
17190     \fbbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
17191     \fbbox{\usebox{\hvCaptionBox}}
17192     \else
17193     \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]

```



```

17194     \usebox{\hvCaptionBox}
17195     \fi%
17196     \end{minipage}
17197     \else% the last option: put the caption on the right
17198 \if@RTL%
17199     \ifx\hvSet@capVPos\hv@Center%
17200     \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17201     \else     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17202     \fi%
17203     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17204     \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17205     \else     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}%
17206     \fi%
17207 \else%
17208     \ifx\hvSet@capVPos\hv@Top % caption at top
17209     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17210     \else     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17211     \fi
17212     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17213     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17214     \else     \raisebox{-\height}{\usebox{\hvObjectBox}}%
17215     \fi%
17216 \else% caption on bottom
17217     \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
17218     \else\usebox{\hvCaptionBox}
17219     \fi%
17220     \hspace{\hvSet@floatCapSep pt}%
17221     \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
17222     \else     \usebox{\hvObjectBox}
17223     \fi%
17224     \fi%
17225 \fi%
17226 \else% not RTL
17227     \ifx\hvSet@capVPos\hv@Center%
17228     \ifhv@fbox
17229     \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17230     \else
17231     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17232     \fi%
17233     \hspace{\hvSet@floatCapSep pt}%
17234     \ifhv@fbox
17235     \fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17236     \else
17237     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17238     \fi%
17239 \else%
17240     \ifx\hvSet@capVPos\hv@Top
17241     \ifhv@fbox
17242     \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17243     \else
17244     \raisebox{-\height}{\usebox{\hvObjectBox}}%
17245     \fi%
17246     \hspace{\hvSet@floatCapSep pt}%
17247     \ifhv@fbox

```



```

17248         \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17249     \else
17250         \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17251     \fi
17252 \else
17253     \ifhv@fbox
17254         \fbox{\usebox{\hvObjectBox}}%
17255     \else
17256         \usebox{\hvObjectBox}%
17257     \fi
17258     \hspace{\hvSet@floatCapSep pt}%
17259     \ifhv@fbox
17260         \fbox{\usebox{\hvCaptionBox}}%
17261     \else
17262         \usebox{\hvCaptionBox}%
17263     \fi%
17264 \fi%
17265 \fi
17266 \fi% end of RTL
17267 \fi
17268 \fi
17269 \fi
17270 }% End savebox Object and caption
17271 %
17272 % now we rotate the object and caption, if needed
17273 %
17274 \ifx\hvSet@rotAngle\hv@Zero
17275     \usebox{\@tempboxa}
17276 \else
17277     \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
17278 \fi
17279 \ifhv@nonFloat
17280     \ifx\hvSet@objectPos\hv@Center
17281         \ifhv@nonFloat
17282             \hspace{\fill}
17283         \fi
17284     \fi
17285     \endgroup% End the nonfloat part
17286 \else
17287     \end{\hv@floatType}% End the floating environment
17288 \fi
17289 }

```

### 103 File hyperref-xetex-bidi.def

```

17290 \ProvidesFile{hyperref-xetex-bidi.def}[2025/01/05 v1.4 bidi adaptations for hyperref package]
17291 \AtBeginDocument{%
17292 \def\contentsline#1#2#3#4{%
17293     \ifx\#4\%
17294         \csname l@#1\endcsname{#2}{#3}%
17295     \else
17296         \ifcase\Hy@linktoc % none
17297             \csname l@#1\endcsname{#2}{#3}%
17298         \or % section

```



```

17299     \csname l@#1\endcsname{%
17300       \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17301     }{#3}%
17302   \or % page
17303     \csname l@#1\endcsname{#2}{%
17304       \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17305     }%
17306   \else % all
17307     \csname l@#1\endcsname{%
17308       \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17309     }{%
17310       \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17311     }%
17312   \fi
17313 \fi
17314 }
17315 \ifHy@hyperfootnotes
17316   \let\H@@footnotetext\@footnotetext
17317   \let\HRTL@RTLfootnotetext\@RTLfootnotetext
17318   \let\HLTR@LTRfootnotetext\@LTRfootnotetext
17319   \def\xfootnotenext[#1]{%
17320     \begingroup
17321       \csname c@%mpfn\endcsname #1\relax
17322       \unrestored@protected@xdef\@thefnmark{\thempfn}%
17323     \endgroup
17324     \ifx\@footnotetext\@mpfootnotetext
17325       \expandafter\H@@mpfootnotetext
17326     \else
17327       \expandafter\H@@footnotetext
17328     \fi
17329   }%
17330   \def\@xRTLfootnotenext[#1]{%
17331     \begingroup
17332       \csname c@%mpfn\endcsname #1\relax
17333       \unrestored@protected@xdef\@thefnmark{\thempfn}%
17334     \endgroup
17335     \ifx\@RTLfootnotetext\@mpRTLfootnotetext
17336       \expandafter\HRTL@mpRTLfootnotetext
17337     \else
17338       \expandafter\HRTL@RTLfootnotetext
17339     \fi
17340   }%
17341   \def\@xLTRfootnotenext[#1]{%
17342     \begingroup
17343       \csname c@%mpfn\endcsname #1\relax
17344       \unrestored@protected@xdef\@thefnmark{\thempfn}%
17345     \endgroup
17346     \ifx\@LTRfootnotetext\@mpLTRfootnotetext
17347       \expandafter\HLTR@mpLTRfootnotetext
17348     \else
17349       \expandafter\HLTR@LTRfootnotetext
17350     \fi
17351   }%
17352   \def\xfootnotemark[#1]{%

```



```

17353 \begingroup
17354 \c@footnote #1\relax
17355 \unrestored@protected@xdef\@thefnmark{\thefootnote}%
17356 \endgroup
17357 \H@@footnotemark
17358 }%
17359 \let\H@@mpfootnotetext\@mpfootnotetext
17360 \let\HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
17361 \let\HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
17362 \long\def\@mpfootnotetext#1{%
17363 \H@@mpfootnotetext{%
17364 \ifHy@nesting
17365 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17366 \else
17367 \Hy@raisedlink{%
17368 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17369 }#1%
17370 \fi
17371 }%
17372 }%
17373 \long\def\@mpRTLfootnotetext#1{%
17374 \HRTL@@mpRTLfootnotetext{%
17375 \ifHy@nesting
17376 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17377 \else
17378 \Hy@raisedlink{%
17379 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17380 }#1%
17381 \fi
17382 }%
17383 }%
17384 \long\def\@mpLTRfootnotetext#1{%
17385 \HLTR@@mpLTRfootnotetext{%
17386 \ifHy@nesting
17387 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17388 \else
17389 \Hy@raisedlink{%
17390 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17391 }#1%
17392 \fi
17393 }%
17394 }%
17395 \long\def\@footnotetext#1{%
17396 \H@@footnotetext{%
17397 \ifHy@nesting
17398 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17399 \else
17400 \Hy@raisedlink{%
17401 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17402 }%
17403 \let\@currentHlabel\Hy@footnote@currentHlabel
17404 \let\@currentHref\Hy@footnote@currentHref
17405 \let\@currentlabelname\@empty
17406 #1%

```



```

17407     \fi
17408   }%
17409 }%
17410 \long\def\@RTLfootnotetext#1{%
17411 \HRTL@@RTLfootnotetext{%
17412   \ifHy@nesting
17413     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17414   \else
17415     \Hy@raisedlink{%
17416       \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17417     }%
17418     \let\@currentHlabel\Hy@footnote@currentHlabel
17419     \let\@currentHref\Hy@footnote@currentHref
17420     \let\@currentlabelname\@empty
17421     #1%
17422   \fi
17423 }%
17424 }%
17425 \long\def\@LTRfootnotetext#1{%
17426 \HLTR@@LTRfootnotetext{%
17427   \ifHy@nesting
17428     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17429   \else
17430     \Hy@raisedlink{%
17431       \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17432     }%
17433     \let\@currentHlabel\Hy@footnote@currentHlabel
17434     \let\@currentHref\Hy@footnote@currentHref
17435     \let\@currentlabelname\@empty
17436     #1%
17437   \fi
17438 }%
17439 }%
17440 \ApplyPatchCodeToPackage{tabularx}{%
17441 \let\HyOrg@TX@endtabularx\TX@endtabularx
17442 \def\Hy@tabularx@hook{%
17443   \let\@footnotetext\H@@footnotetext
17444   \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
17445   \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
17446   \let\@footnotemark\H@@footnotemark
17447   \let\@mpfootnotetext\H@@mpfootnotetext
17448   \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
17449   \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
17450 }%
17451 \begingroup
17452   \toks@\expandafter{\TX@endtabularx}%
17453   \xdef\Hy@gtemp{%
17454     \noexpand\Hy@tabularx@hook
17455     \the\toks@
17456   }%
17457 \endgroup
17458 \let\TX@endtabularx\Hy@gtemp
17459 }%
17460 \ApplyPatchCodeToPackage{longtable}{%

```



```

17461 \CheckCommand{\LT@p@LTRftntext}[1]{%
17462   \edef\@tempa{%
17463     \the\LT@p@ftn
17464     \noexpand\LTRfootnotetext[\the\c@footnote]%
17465   }%
17466   \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17467 }%
17468 \long\def\LT@p@LTRftntext#1{%
17469   \edef\@tempa{%
17470     \the\LT@p@ftn
17471     \begingroup
17472       \noexpand\c@footnote=\the\c@footnote\relax
17473       \noexpand\protected@xdef\noexpand\@thefnmark{%
17474         \noexpand\thempfn
17475       }%
17476       \noexpand\Hy@LT@LTRfootnotetext{%
17477         \Hy@footnote@currentHref
17478       }%
17479     }%
17480     \global\LT@p@ftn\expandafter{%
17481       \@tempa{#1}%
17482     \endgroup
17483   }%
17484 }%
17485 \long\def\Hy@LT@LTRfootnotetext#1#2{%
17486   \HLTR@@LTRfootnotetext{%
17487     \ifHy@nesting
17488       \hyper@@anchor{#1}{#2}%
17489     \else
17490       \Hy@raisedlink{%
17491         \hyper@@anchor{#1}{\relax}%
17492       }%
17493       \def\@currentHref{#1}%
17494       \let\@currentlabelname\@empty
17495       #2%
17496     \fi
17497   }%
17498 }%
17499 \CheckCommand{\LT@p@RTLftntext}[1]{%
17500   \edef\@tempa{%
17501     \the\LT@p@ftn
17502     \noexpand\RTLfootnotetext[\the\c@footnote]%
17503   }%
17504   \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17505 }%
17506 \long\def\LT@p@RTLftntext#1{%
17507   \edef\@tempa{%
17508     \the\LT@p@ftn
17509     \begingroup
17510       \noexpand\c@footnote=\the\c@footnote\relax
17511       \noexpand\protected@xdef\noexpand\@thefnmark{%
17512         \noexpand\thempfn
17513       }%
17514       \noexpand\Hy@LT@RTLfootnotetext{%

```



```

17515         \Hy@footnote@currentHref
17516     }%
17517 }%
17518 \global\LT@p@ftn\expandafter{%
17519     \@tempa{#1}%
17520 \endgroup
17521 }%
17522 }%
17523 \long\def\Hy@LT@RTLfootnotetext#1#2{%
17524     \HRTL@RTLfootnotetext{%
17525         \ifHy@nesting
17526             \hyper@@anchor{#1}{#2}%
17527         \else
17528             \Hy@raisedlink{%
17529                 \hyper@@anchor{#1}{\relax}%
17530             }%
17531             \def\@currentHref{#1}%
17532             \let\@currentlabelname\@empty
17533             #2%
17534         \fi
17535     }%
17536 }%
17537 }%
17538 \ApplyPatchCodeToPackage{bidipoem}{%
17539 \long\def\bidipoem@p@ftntext#1{%
17540     \edef\@tempx{%
17541         \the\bidipoem@p@ftn
17542     \begingroup
17543         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17544         \noexpand\protected@xdef\noexpand\@thefnmark{%
17545             \noexpand\thempfn
17546         }%
17547         \noexpand\Hy@bidipoem@footnotetext{%
17548             \Hy@footnote@currentHref
17549         }%
17550     }%
17551 \global\bidipoem@p@ftn\expandafter{%
17552     \@tempx{#1}%
17553 \endgroup
17554 }%
17555 }%
17556 \long\def\Hy@bidipoem@footnotetext#1#2{%
17557     \H@footnotetext{%
17558         \ifHy@nesting
17559             \hyper@@anchor{#1}{#2}%
17560         \else
17561             \Hy@raisedlink{%
17562                 \hyper@@anchor{#1}{\relax}%
17563             }%
17564             \def\@currentHref{#1}%
17565             \let\@currentlabelname\@empty
17566             #2%
17567         \fi
17568     }%

```





```

17569 }%
17570 \long\def\bidipoem@p@LTRftntext#1{%
17571 \edef\@tempxi{%
17572 \the\bidipoem@p@ftn
17573 \begingroup
17574 \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17575 \noexpand\protected@xdef\noexpand\@thefnmark{%
17576 \noexpand\thempfn
17577 }%
17578 \noexpand\Hy@bidipoem@LTRfootnotetext{%
17579 \Hy@footnote@currentHref
17580 }%
17581 }%
17582 \global\bidipoem@p@ftn\expandafter{%
17583 \@tempxi{#1}%
17584 \endgroup
17585 }%
17586 }%
17587 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
17588 \HLTR@@LTRfootnotetext{%
17589 \ifHy@nesting
17590 \hyper@@anchor{#1}{#2}%
17591 \else
17592 \Hy@raisedlink{%
17593 \hyper@@anchor{#1}{\relax}%
17594 }%
17595 \def\@currentHref{#1}%
17596 \let\@currentlabelname\empty
17597 #2%
17598 \fi
17599 }%
17600 }%
17601 \long\def\bidipoem@p@RTLftntext#1{%
17602 \edef\@tempxii{%
17603 \the\bidipoem@p@ftn
17604 \begingroup
17605 \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17606 \noexpand\protected@xdef\noexpand\@thefnmark{%
17607 \noexpand\thempfn
17608 }%
17609 \noexpand\Hy@bidipoem@RTLfootnotetext{%
17610 \Hy@footnote@currentHref
17611 }%
17612 }%
17613 \global\bidipoem@p@ftn\expandafter{%
17614 \@tempxii{#1}%
17615 \endgroup
17616 }%
17617 }%
17618 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
17619 \HRTL@@RTLfootnotetext{%
17620 \ifHy@nesting
17621 \hyper@@anchor{#1}{#2}%
17622 \else

```



```

17623         \Hy@raisedlink{%
17624             \hyper@@anchor{#1}{\relax}%
17625         }%
17626         \def\@currentHref{#1}%
17627         \let\@currentlabelname\@empty
17628         #2%
17629     \fi
17630 }%
17631 }%
17632 }%
17633 \let\HyOrg@maketitle\maketitle
17634 \def\maketitle{%
17635     \let\Hy@saved@footnotemark\@footnotemark
17636     \let\Hy@saved@footnotetext\@footnotetext
17637     \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
17638     \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
17639     \let\@footnotemark\H@@footnotemark
17640     \let\@footnotetext\H@@footnotetext
17641     \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
17642     \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
17643     \@ifnextchar[\Hy@maketitle@optarg{% ]
17644         \HyOrg@maketitle
17645         \Hy@maketitle@end
17646     }%
17647 }%
17648 \def\Hy@maketitle@optarg[#1]{%
17649     \HyOrg@maketitle[#{#1}]%
17650     \Hy@maketitle@end
17651 }%
17652 \def\Hy@maketitle@end{%
17653     \ifx\@footnotemark\H@@footnotemark
17654         \let\@footnotemark\Hy@saved@footnotemark
17655     \fi
17656     \ifx\@footnotetext\H@@footnotetext
17657         \let\@footnotetext\Hy@saved@footnotetext
17658     \fi
17659     \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
17660         \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
17661     \fi
17662     \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
17663         \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
17664     \fi
17665 }%
17666 \def\realfootnote{%
17667     \@ifnextchar[\@xfootnote{%
17668         \stepcounter{\@mpfn}%
17669         \protected@xdef\@thefnmark{\thempfn}%
17670         \H@@footnotemark\H@@footnotetext
17671     }%
17672 }%
17673 \fi
17674 \def\Hy@BeginAnnot#1{%
17675     \ifmmode\else\beginL\fi%
17676     \global\advance\c@Hy@AnnotLevel\@ne

```



```

17677 \ifnum\c@Hy@AnnotLevel=\@ne
17678   #1%
17679 \fi
17680 }
17681 \def\Hy@EndAnnot{%
17682   \ifnum\c@Hy@AnnotLevel=\@ne
17683     \Hy@endcolorlink
17684     \@pdfm@mark{eann}%
17685   \fi
17686   \global\advance\c@Hy@AnnotLevel\m@ne
17687   \ifmmode\else\endL\fi%
17688 }
17689 \def\hyper@link#1#2#3{%
17690   \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi%
17691 }
17692 \def\hyper@linkfile#1#2#3{%
17693   \leavevmode
17694   \Hy@BeginAnnot{%
17695     \def\Hy@pstringF{#2}%
17696     \Hy@CleanupFile\Hy@pstringF
17697     \Hy@pstringdef\Hy@pstringF\Hy@pstringF
17698     \Hy@pstringdef\Hy@pstringD{#3}%
17699     \Hy@MakeRemoteAction
17700     \@pdfm@mark{%
17701       bann<<%
17702         /Type/Annot%
17703         /Subtype/Link%
17704         \ifHy@pdfa /F 4\fi
17705         \Hy@setpdfborder
17706         \ifx\@filebordercolor\relax
17707           \else
17708             /C[\@filebordercolor]%
17709           \fi
17710         /A<<%
17711         /S/GoToR%
17712         /F(\Hy@pstringF)%
17713         /D%
17714         \ifx\@#3\%
17715           [\Hy@href@page\@pdfremotestartview]%
17716         \else
17717           (\Hy@pstringD)%
17718         \fi
17719         \Hy@SetNewWindow
17720         \Hy@href@nextactionraw
17721       >>%
17722     >>%
17723   }%
17724   \Hy@colorlink\@filecolor
17725 }%
17726 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17727 \Hy@EndAnnot
17728 }
17729 \def\@hyper@launch run:#1\@#2#3{% filename, anchor text linkname
17730   \leavevmode

```



```

17731 \Hy@BeginAnnot{%
17732   \Hy@pstringdef\Hy@pstringF{#1}%
17733   \Hy@pstringdef\Hy@pstringP{#3}%
17734   \@pdfm@mark{%
17735     bann<<%
17736     /Type/Annot%
17737     /Subtype/Link%
17738     \ifHy@pdfa /F 4\fi
17739     \Hy@setpdfborder
17740     \ifx\@runbordercolor\relax
17741     \else
17742       /C[\@runbordercolor]%
17743     \fi
17744     /A<<%
17745     /F(\Hy@pstringF)%
17746     /S/Launch%
17747     \Hy@SetNewWindow
17748     \ifx\@#3\%
17749     \else
17750       /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
17751     \fi
17752     \Hy@href@nextactionraw
17753     >>%
17754   >>%
17755   }%
17756   \Hy@colorlink\@runcolor
17757 }%
17758 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17759 \Hy@endAnnot
17760 }
17761 \def\hyper@linkurl#1#2{%
17762   \leavevmode
17763   \Hy@BeginAnnot{%
17764     \Hy@pstringdef\Hy@pstringURI{#2}%
17765     \@pdfm@mark{%
17766       bann<<%
17767       /Type/Annot%
17768       /Subtype/Link%
17769       \ifHy@pdfa /F 4\fi
17770       \Hy@setpdfborder
17771       \ifx\@urlbordercolor\relax
17772       \else
17773         /C[\@urlbordercolor]%
17774       \fi
17775       /A<<%
17776       /S/URI%
17777       /URI(\Hy@pstringURI)%
17778       \ifHy@href@ismap
17779         /IsMap true%
17780       \fi
17781       \Hy@href@nextactionraw
17782       >>%
17783     >>%
17784   }%

```



```

17785 \Hy@colorlink\@urlcolor
17786 }%
17787 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17788 \Hy@EndAnnot
17789 }
17790 \def\Acrobatmenu#1#2{%
17791 \Hy@Acrobatmenu{#1}{#2}{%
17792 \Hy@BeginAnnot{%
17793 \EdefEscapeName\Hy@temp@menu{#1}%
17794 \@pdfm@mark{%
17795 bann<<%
17796 /Type/Annot%
17797 /Subtype/Link%
17798 \ifHy@pdfa /F 4\fi
17799 \Hy@setpdfborder
17800 \ifx\@menubordercolor\relax
17801 \else
17802 /C[\@menubordercolor]%
17803 \fi
17804 /A<<%
17805 /S/Named%
17806 /N/\Hy@temp@menu
17807 \Hy@href@nextactionraw
17808 >>%
17809 >>%
17810 }%
17811 \Hy@colorlink\@menucolor
17812 }%
17813 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17814 \Hy@EndAnnot
17815 }%
17816 }
17817 \def\hyper@natlinkstart#1{%
17818 \Hy@backout{#1}%
17819 \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
17820 \def\hyper@nat@current{#1}%
17821 }
17822 \def\hyper@natlinkend{%
17823 \if@RTL\endR\fi\hyper@linkend
17824 }
17825 \def\hyper@natlinkbreak#1#2{%
17826 \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
17827 }%
17828 }
17829 \pdfstringdefDisableCommands{%
17830 \let\LRE\@firstofone
17831 \let\LR\@firstofone
17832 \let\RLE\@firstofone
17833 \let\RL\@firstofone
17834 \def\XeTeX{Xe\TeX}%
17835 \def\XeLaTeX{Xe\LaTeX}%
17836 }
17837 \bidi@patchcmd\@TextField{%
17838 \@pdfm@mark

```



```

17839 }{%
17840   \if@RTL
17841     \hskip\Fld@width
17842   \fi
17843   \@pdfm@mark
17844 }{}{}
17845 \bidi@patchcmd\@TextField{%
17846   \unhbox
17847 }{%
17848   \if@RTL
17849     \hskip-\Fld@width
17850   \fi
17851   \unhbox
17852 }{}{}
17853 \bidi@patchcmd\@@Radio{%
17854   \@pdfm@mark
17855 }{%
17856   \if@RTL
17857     \hskip\Fld@width
17858   \fi
17859   \@pdfm@mark
17860 }{}{}
17861 \bidi@patchcmd\@@Radio{%
17862   \unhcopy
17863 }{%
17864   \if@RTL
17865     \hskip-\Fld@width
17866   \fi
17867   \unhcopy
17868 }{}{}
17869 \bidi@patchcmd\@Submit{%
17870   \@pdfm@mark
17871 }{%
17872   \if@RTL
17873     \null
17874     \hskip\wd\pdfm@box
17875   \fi
17876   \@pdfm@mark
17877 }{}{}
17878 \bidi@patchcmd\@Submit{%
17879   \unhbox
17880 }{%
17881   \if@RTL
17882     \hskip-\wd\pdfm@box
17883   \fi
17884   \unhbox
17885 }{}{}
17886 \bidi@patchcmd\@Reset{%
17887   \@pdfm@mark
17888 }{%
17889   \if@RTL
17890     \null
17891     \hskip\wd\pdfm@box
17892   \fi

```



```

17893 \pdfmark
17894 }{}{}
17895 \bidi@patchcmd\@Reset{%
17896 \unhbox
17897 }{%
17898 \if@RTL
17899 \hskip-\wd\pdfm@box
17900 \fi
17901 \unhbox
17902 }{}{}

```

## 104 File `imsproc-xetex-bidi.def`

```

17903 \ProvidesFile{imsproc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imspoc class for
17904 \newenvironment{thebibliography}[1]{%
17905 \@bibtitlestyle
17906 \normalfont\bibliofont\labelsep .5em\relax
17907 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
17908 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17909 \bidi@thebibliography@font@hook
17910 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
17911 \leftmargin\labelwidth \advance\leftmargin\labelsep
17912 \usecounter{enumiv}}%
17913 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
17914 \sfcode`\.=\@m
17915 }{%
17916 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
17917 \endlist
17918 }
17919
17920 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
17921 \columnseprule\z@ \columnsep 35\p@
17922 \@indextitlestyle
17923 \thispagestyle{plain}%
17924 \let\item\@idxitem
17925 \parindent\z@ \parskip\z@\@plus.3\p@\relax
17926 \if@RTL\raggedleft\else\raggedright\fi
17927 \hyphenpenalty\@M
17928 \footnotesize}
17929 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
17930 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
17931 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
17932
17933 \def\right@footnoterule{%
17934 \kern-.4\p@
17935 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
17936 \kern11\p@\kern-\footnotesep}
17937 \def\left@footnoterule{\kern-.4\p@
17938 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
17939 \def\@makefnmark{%
17940 \leavevmode
17941 \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}}%
17942 }
17943

```



```

17944 \def\part{\@startsection{part}{0}%
17945   \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
17946   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
17947 \def\@tocline#1#2#3#4#5#6#7{\relax
17948   \ifnum #1>\c@tocdepth % then omit
17949   \else
17950     \par \addpenalty\@secpenalty\addvspace{#2}%
17951     \begingroup \hyphenpenalty\@M
17952     \@ifempty{#4}{%
17953       \@tempdima\csname r@tocindent\number#1\endcsname\relax
17954     }{%
17955       \@tempdima#4\relax
17956     }%
17957     \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\leftskip\fi#4\relax
17958     \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
17959     #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
17960     \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
17961     \nobreak
17962   \endgroup
17963 \fi}
17964 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
17965 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
17966 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
17967 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
17968 \def\maketitle{\par
17969   \@topnum\z@ % this prevents figures from falling at the top of page 1
17970   \@setcopyright
17971   \thispagestyle{firstpage}% this sets first page specifications
17972   \uppercase\nonmath\shorttitle
17973   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
17974   \else \andify\shortauthors
17975   \fi
17976   \@maketitle@hook
17977   \begingroup
17978   \@maketitle
17979   \toks@{\xp{\shortauthors}\@temptokena\xp{\shorttitle}}%
17980   \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
17981   \edef\@tempa{%
17982     \@nx\markboth{\the\toks4
17983       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
17984   \@tempa
17985   \endgroup
17986   \c@footnote\z@
17987   \@cleartopmattertags
17988 }

```

## 105 File leqno-xetex-bidi.def

```

17989 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
17990 \renewcommand\@eqnnum{\hbxt@.01\p@{}}%
17991   \rlap{\hskip -\displaywidth
17992     {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}

```





## 106 File letter-xetex-bidi.def

```
17993 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter cl
17994 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
17995   \thispagestyle{firstpage}%
17996   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
17997 \else % home address
17998   \thispagestyle{empty}%
17999   {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
18000     \fromaddress \*[2\parskip]%
18001     \@date \end{tabular}\par}%
18002 \fi
18003 \vspace{2\parskip}%
18004 {\if@RTL\raggedleft\else\raggedright\fi \toname \\\ toaddress \par}%
18005 \vspace{2\parskip}%
18006 #1\par\nobreak}
18007 \renewcommand\left@footnoterule{%
18008   \kern-\p@
18009   \hrule \@width .4\columnwidth
18010   \kern .6\p@}
18011 \renewcommand\right@footnoterule{%
18012   \kern-\p@
18013   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
18014   \kern .6\p@}
```

## 107 File lettrine-xetex-bidi.def

```
18015 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine package
18016 \RemoveFromHook{begindocument}[lettrine]
18017 \AtBeginDocument[lettrine]{%
18018   \if\DefaultOptionsFile\relax
18019   \else
18020     \InputIfFileExists{\DefaultOptionsFile}%
18021     {}%
18022     {\PackageWarning{lettrine.sty}%
18023       {File \DefaultOptionsFile\space not found}%
18024     }%
18025   \fi
18026   \let\ifL@RTL\if@RTL
18027 }
```

## 108 File lineno-xetex-bidi.def

```
18028 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package for
18029 \bidi@patchcmd{\MakeLineNo}{%
18030   \hb@xt@\z@{\makeLineNumber}%
18031 }{%
18032   \hboxL to \z@{\makeLineNumber}%
18033 }{}{}
18034
18035 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
18036   \if@RTL
18037     \hb@xt@\linenumberwidth{\LineNumber\hss}%
18038   \else
```



```

18039     \LineNumber
18040     \fi
18041 }{}{}
18042
18043 \bidi@patchcmd{\makeLineNumberRight}{%
18044     \hb@xt@\linenumberwidth{\hss\LineNumber}%
18045 }{%
18046     \if@RTL
18047         \LineNumber
18048     \else
18049         \hb@xt@\linenumberwidth{\hss\LineNumber}%
18050     \fi
18051 }{}{}
18052
18053 \bidi@AfterPreamble{%
18054     \if@RTLmain
18055         \rightlinenumbers*
18056     \else
18057         \leftlinenumbers*
18058     \fi
18059     \@ifpackagewith{lineno}{left}{%
18060         \leftlinenumbers*
18061     }{}
18062     \@ifpackagewith{lineno}{right}{%
18063         \rightlinenumbers*
18064     }{}
18065     \@ifpackagewith{lineno}{switch}{%
18066         \if@RTLmain
18067             \switchlinenumbers*%
18068         \else
18069             \switchlinenumbers
18070         \fi
18071     }{}
18072     \@ifpackagewith{lineno}{switch*}{%
18073         \if@RTLmain
18074             \switchlinenumbers
18075         \else
18076             \switchlinenumbers*%
18077         \fi
18078     }{}
18079 }
18080

```

## 109 File listings-xetex-bidi.def

```

18081 \ProvidesFile{listings-xetex-bidi.def}[2025/01/03 v1.6 bidi adaptations for listings package]
18082 \lst@Key{captiondirection}{textdirection}{%
18083     \lstKV@SwitchCases{#1}%
18084     {textdirection:\\%
18085         RTL:\chardef\bidi@lst@caption@direction\@ne\\%
18086         LTR:\chardef\bidi@lst@caption@direction\z}%
18087     }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18088
18089 \lst@Key{captionscript}{textscript}{%

```



```

18090 \lstKV@SwitchCases{#1}%
18091 {textscript:\\%
18092 latin:\chardef\bidi@lst@caption@script\@ne\\%
18093 nonlatin:\chardef\bidi@lst@caption@script\z@%
18094 }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18095
18096 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
18097 \@ifundefined{bidi@lst@caption@direction}{}{%
18098 \ifnum\bidi@lst@caption@direction=\z@%
18099 #1%
18100 \else%
18101 \ifnum\bidi@lst@caption@direction=\@ne%
18102 #2%
18103 \fi%
18104 \fi%
18105 }}
18106
18107 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
18108 \@ifundefined{bidi@lst@caption@script}{}{%
18109 \ifnum\bidi@lst@caption@script=\z@%
18110 #1%
18111 \else%
18112 \ifnum\bidi@lst@caption@script=\@ne%
18113 #2%
18114 \fi%
18115 \fi%
18116 }}
18117
18118 \long\def\@bidi@lst@makecaption#1#2{%
18119 \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18120 \vskip\abovecaptionskip
18121 \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18122 \sbox\@tempboxa{%
18123 \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
18124 #1: #2%
18125 \bidi@lst@ensure@caption@direction{\endL}{\endR}%
18126 }%
18127 \ifdim \wd\@tempboxa >\hsize
18128 #1: #2\par
18129 \else
18130 \global \@minipagefalse
18131 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
18132 \fi
18133 \vskip\belowcaptionskip}%
18134 \def\lst@makecaption{\@bidi@lst@makecaption}
18135 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
18136 \bidi@AtEndPreamble{%
18137 \bidi@patchcmd{\lst@MakeCaption}{%
18138 \ifx #1t%
18139 \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18140 \expandafter\refstepcounter
18141 \fi \lstlisting}%
18142 }{%
18143 \ifx #1t%

```



```

18144      \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18145      \ifx\lst@caption\empty\expandafter\lst@HRefStepCounter \else
18146      \expandafter\refstepcounter
18147      \fi {lstlisting}%
18148      \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
18149    }{}{}%
18150    \bidi@patchcmd{\lst@MakeCaption}{%
18151      \addcontentsline{lol}{lstlisting}%
18152      {\protect\numberline{\thelstlisting}\lst@caption}%
18153    }{}%
18154    \begingroup%
18155      \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18156      \addcontentsline{lol}{lstlisting}%
18157      {\protect\numberline{\thelstlisting}\lst@caption}%
18158    \endgroup%
18159  }{}{}%
18160 }
18161 \ApplyPatchIfPackageLoaded{caption}{%
18162   \AtBeginCaption{%
18163     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18164     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18165   }
18166   \let\@bidi@lst@makecaption\caption@makecaption%
18167   \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
18168   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\empty}%
18169 }{}%
18170 \AtBeginDocument{%
18171   \@ifundefined{captionlabelfalse}{}{}%
18172   \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\empty}}%
18173   \@ifundefined{caption@startrue}{}{}%
18174   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\empty}}%
18175 }{}%
18176 }
18177 \AtBeginDocument{
18178   \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
18179   \lst@ifnumberbychapter
18180     \gdef\thelstlisting%
18181     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
18182   \else
18183     \gdef\thelstlisting{\@arabic\c@lstlisting}
18184   \fi}

```

## 110 File longtable-xetex-bidi.def

```

18185 \ProvidesFile{longtable-xetex-bidi.def}[2025/01/05 v0.8 bidi adaptations for longtable packa
18186 \ExplSyntaxOn
18187 \def\LT@array[#1]#2{%
18188   \UseTaggingSocket{tbl/init}
18189   \tl_if_empty:eTF { \LTcaptive }
18190   {
18191     \tl_gset:Ne \@currentHref {LT@tables.\theHLT@tables}
18192   }
18193   {
18194     \@kernel@refstepcounter{\LTcaptive}\stepcounter{LT@tables}

```



```

18195     \tl_gset:Ne \@currentHref {\LTcapytype.\cs_if_exist_use:c {theH\LTcapytype}}
18196   }
18197   \tbl_gzero_row_count:
18198   \UseTaggingSocket{tbl/longtable/init}
18199   \if l#1%
18200     \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
18201   \else\if r#1%
18202     \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
18203   \else\if c#1%
18204     \LTleft\fill \LTright\fill
18205   \fi\fi\fi
18206   \let\LT@mcot\multicolumn
18207   \let\LT@@tabarray\@tabarray
18208   \let\LT@@hl\hline
18209   \def\@tabarray{%
18210     \let\hline\LT@@hl
18211     \LT@@tabarray}%
18212   \let\\LT@tabularcr
18213   \let\tabularnewline\\
18214   \def\newpage{\noalign{\break}}%
18215   \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
18216   \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt\LT@no@pgbk4}%
18217   \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
18218   \@tempdima\ht\strutbox
18219   \let\@endpbox\LT@endpbox
18220   \ifx\extrarowheight\@undefined
18221     \let\@acol\@tabacol
18222     \let\@classz\@tabclassz \let\@classiv\@tabclassiv
18223     \def\@startpbox{\vtop\LT@startpbox}%
18224     \let\@@startpbox\@startpbox
18225     \let\@@endpbox\@endpbox
18226     \let\LT@LL@FM@cr\@tabularcr
18227   \else
18228     \advance\@tempdima\extrarowheight
18229     \col@sep\tabcolsep
18230     \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
18231   \fi
18232   \setbox\@arstrutbox\hbox{\vrule
18233     \@height \arraystretch \@tempdima
18234     \@depth \arraystretch \dp \strutbox
18235     \@width \z@}%
18236   \let\@sharp##\let\protect\relax
18237   \begingroup
18238   \@mkpream{#2}%
18239   \tbl_count_table_cols:
18240   \xdef\LT@bchunk{%
18241     \tbl_inbetween_rows:
18242     \global\advance\c@LT@chunks\@ne
18243     \global\LT@rows\z@\setbox\z@\vbox\bgroup
18244     \LT@setprevdepth
18245     \tabskip\LTleft \noexpand\halign to\hsize\bgroup
18246     \tabskip\z@ \@arstrut
18247     \UseTaggingSocket{tbl/row/begin}%
18248     \tbl_init_cell_data_for_row:

```



```

18249     \@preamble \tabskip\LTright \cr}%
18250 \endgroup
18251 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
18252 \LT@make@row
18253 \m@th\let\par\@empty
18254 \everycr{%
18255     \noalign{%
18256         \tbl_trace:n {--longtable-->~chunk~row:~ \the\LT@rows \space
18257             row:~ \the\g__tbl_row_int \space
18258             column:~ \the\g__tbl_col_int
18259     }
18260     \tbl_if_row_was_started:T
18261     {
18262         \UseTaggingSocket{tbl/row/end}
18263         \tbl_inbetween_rows:
18264     }
18265     \int_compare:nNt \LT@rows < \LTchunksize
18266     { \tbl_gincr_row_count: } % next is row about to start
18267 }%
18268 }%
18269 \lineskip\z@\baselineskip\z@
18270 \LT@bchunk}
18271 \ExplSyntaxOff
18272 \def\LT@makecaption#1#2#3{%
18273     \LT@mc@col\LT@cols c{\hbox to\z@{\hss\parbox[t]{\LTcapwidth{%
18274         \reset@font
18275         \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
18276         \ifdim\wd\@tempboxa>\hsize
18277             #1{#2: }#3%
18278         \else
18279             \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
18280         \fi
18281         \endgraf\vskip\baselineskip}%
18282     \hss}}}%
18283 \ApplyPatchCodeToPackage{caption}{%
18284     \renewcommand\LT@makecaption[3]{%
18285         \caption@LT@make{%
18286             \caption@LT@settype\LTcaptype
18287             \caption@LT@setup
18288             \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
18289             \caption@startrue#1\caption@starfalse
18290             \caption@prepare@stepcounter\LTcaptype
18291             \caption@begin\LTcaptype
18292             \caption@normalsize
18293             \vskip-\ht\strutbox
18294             \caption@ifdefined\FBifcapttop{%
18295                 \let\caption@belowskip\@empty}{}%
18296             \caption@make@above
18297             \caption@@make{#2}{#3}\endgraf
18298             \caption@make@below
18299             \caption@end}}}%
18300 }
18301 \def\LT@startpbox#1{%
18302     \bgroup

```



```

18303 \color@begingroup
18304 \let\@footnotetext\LT@p@ftntext
18305 \let\@LTRfootnotetext\LT@p@LTRftntext
18306 \let\@RTLfootnotetext\LT@p@RTLftntext
18307 \setlength\hsize{#1}%
18308 \@arrayparboxrestore
18309 \everypar{%
18310 \vrule \@height \ht\@arstrutbox \@width \z@
18311 \everypar{}}%
18312 }
18313 \long\def\LT@p@LTRftntext#1{%
18314 \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}%
18315 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18316 \long\def\LT@p@RTLftntext#1{%
18317 \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}%
18318 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18319 \def\LT@output{%
18320 \ifnum\outputpenalty <-\@Mi
18321 \ifnum\outputpenalty > -\LT@end@pen
18322 \LT@err{floats and marginpars not allowed in a longtable}\@ehc
18323 \else
18324 \setbox\z@\vbox{\unvbox\@cclv}%
18325 \ifdim \ht\LT@lastfoot>\ht\LT@foot
18326 \dimen@ \pagegoal
18327 \advance\dimen@ \ht\LT@foot
18328 \advance\dimen@ -\ht\LT@lastfoot
18329 \ifdim\dimen@<\ht\z@
18330 \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
18331 \@makecol
18332 \@outputpage
18333 \global\vsizel\@colroom
18334 \setbox\z@\vbox{\box\LT@head}%
18335 \fi
18336 \fi
18337 \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
18338 \unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@lastfoot\fi
18339 \UseTaggingSocket{tbl/longtable/foot}
18340 \if@RTLtab\egroup\endR\egroup\fi
18341 \fi
18342 \else
18343 \setbox\@cclv\vbox{%
18344 \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
18345 \unvbox\@cclv\copy\LT@foot\vss
18346 \if@RTLtab\egroup\endR\egroup\fi
18347 }%
18348 \UseTaggingSocket{tbl/longtable/foot}
18349 \@makecol
18350 \@outputpage
18351 \global\vsizel\@colroom
18352 \copy\LT@head\nobreak
18353 \fi}

```

## 111 File lscape-xetex-bidi.def



```

18354 \ProvidesFile{lscape-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for lscape package for
18355 \RequirePackage{graphicx}
18356 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box\@outputbox}}{%
18357   \if@RTL
18358     \rotatebox[origin=br]{-90}{\box\@outputbox}%
18359   \else
18360     \rotatebox{90}{\box\@outputbox}%
18361   \fi
18362 }{}{}
18363
18364 \g@addto@macro{\landscape}{%
18365   \if@bidi@csdef{bidi@columnwidth}{%
18366     \bidi@columnwidth\columnwidth
18367   }{}%
18368   \let\bidi@left@footnoterule\left@footnoterule
18369   \let\bidi@right@footnoterule\right@footnoterule
18370   \def\left@footnoterule{%
18371     \if@RTL
18372       \bidi@right@footnoterule
18373     \else
18374       \bidi@left@footnoterule
18375     \fi
18376   }%
18377   \def\right@footnoterule{%
18378     \if@RTL
18379       \bidi@left@footnoterule
18380     \else
18381       \bidi@right@footnoterule
18382     \fi
18383   }%
18384 }

```

## 112 File mathtools-xetex-bidi.def

```

18385 \ProvidesFile{mathtools-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for mathtools packa
18386 \RequirePackage{graphicx}
18387 \MHInternalSyntaxOn
18388 \def\MT_define_tagform:nwnn #1[#2]#3#4{
18389   \@namedef{MT_tagform_#1:n}##1
18390   {\maketag@@@{\if@nonlatin\beginR\fi#3\kern#4\ignorespaces#2{##1}\unskip\@italiccorr#4}
18391 }
18392 \renewtagform{default}{({})}
18393 \MHInternalSyntaxOff

```

## 113 File mdframed-xetex-bidi.def

```

18394 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package
18395 \newif\if@bidi@mdf@RTL
18396 \def\mdf@lrbox#1{%
18397   \mdf@patchamsthm%patch amsthm
18398   \if@RTL\@bidi@mdf@RTLtrue\fi%
18399   \@RTLfalse%
18400   \setbox#1\vbox\bgroup%
18401   \color@begingroup%

```





```

18402 \if@bidi@mdf@RTL\@RTLtrue\fi%
18403 \mdf@horizontalmargin@equation%
18404 \columnwidth=\hsize%
18405 \textwidth=\hsize%
18406 \let\if@nobreak\iffalse%
18407 \let\if@noskipsec\iffalse%
18408 \let\par\@par%
18409 \let\-\@dischyph%
18410 \let'\@acci\let'\@accii\let\=\@acciii%
18411 \parindent\z@ \parskip\z@skip%
18412 \linewidth\hsize%
18413 \@totalleftmargin\z@%
18414 \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
18415 \parfillskip\@flushglue \lineskip\normallineskip%
18416 \baselineskip\normalbaselineskip%
18417 %% \sloppy%
18418 \let\\\@normalcr%
18419 \mdf@par@local%New feature to restore parskip/parindent local in save box
18420 \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
18421 \@afterindentfalse%
18422 %\@afterheading%
18423 }
18424 \renewrobustcmd\mdfframedtitleenv[1]{%
18425 \mdf@lrbox{\mdf@frametitlebox}%
18426 \mdf@frametitlealignment%
18427 \leavevmode{\color{\mdf@frametitlefontcolor}%
18428 \normalfont\mdf@frametitlefont{#1}
18429 \ifbool{mdf@ignorelastdescenders}%
18430 {%
18431 \par\strut\par
18432 \unskip\unskip\setbox0=\lastbox
18433 \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
18434 }{}}%
18435 \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%
18436 \endmdf@lrbox\relax%
18437 \mdf@ignorevbadness%
18438 \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
18439 \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
18440 \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
18441 \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
18442 \mdfframetitleboxtotalheight=\dimexpr
18443 \ht\mdf@frametitlebox
18444 +\dp\mdf@frametitlebox%
18445 +\mdf@frametitleaboveskip@length
18446 +\mdf@frametitlebelowskip@length
18447 \relax%
18448 }
18449
18450 \renewrobustcmd*\mdf@footnoteoutput{%
18451 \ifvoid\@mpfootins\else%
18452 \nobreak%
18453 \vskip\mdf@footnotedistance@length%
18454 \normalcolor%
18455 \bidi@mpfootnoterule%

```



```

18456         \unvbox\@mpfootins%
18457     \fi%
18458 }
18459
18460
18461 \renewrobustcmd*\mdf@footnoteinput{%
18462     \def\@mpfn{mpfootnote}%
18463     \def\thempfn{\thempfootnote}%
18464     \c@mpfootnote\z@%
18465     \let\@footnotetext\@mpfootnotetext%
18466     \let\@LTRfootnotetext\@mpLTRfootnotetext%
18467     \let\@RTLfootnotetext\@mpRTLfootnotetext%
18468 }

```

## 114 File media9-xetex-bidi.def

```

18469 \ProvidesFile{media9-xetex-bidi.def}[2025/01/03 v0.1 bidi adaptations for media9 package for
18470 \RequirePackage{bidi-media9}

```

## 115 File bidi-media9.sty

```

18471 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
18472 {bidi fixes for media9 package for the XeTeX engine}
18473
18474 \keys_define:nn{media9/mbtn}{
18475     draft .code:n = {},
18476     final .code:n = {},
18477
18478     tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
18479     tooltip .value_required:n = {true},
18480
18481     overface .code:n = {
18482         \sbox\l_mix_poster_box{
18483             \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18484             \mix_pdfxform:n{\l_mix_poster_box}
18485             \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
18486         },
18487         overface .value_required:n = {true},
18488
18489     downface .code:n = {
18490         \sbox\l_mix_poster_box{
18491             \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18492             \mix_pdfxform:n{\l_mix_poster_box}
18493             \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
18494         },
18495         downface .value_required:n = {true},
18496
18497     3Dgotoview .code:n = {
18498         \tl_set:Nx\l_tmpa_tl{#1} %extract ref
18499         \regex_replace_once:nnN{([~:])+}??.*{\1}\l_tmpa_tl
18500         \tl_trim_spaces:N\l_tmpa_tl
18501         \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18502             \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18503                 \tl_set:Nx\l_tmpb_tl{#1} %extract idx

```



```

18504 \regex_replace_once:nnN{[^\:]+\:}{\l_tmpb_tl
18505 \tl_trim_spaces:N\l_tmpb_tl
18506 \tl_if_blank:VF\l_tmpb_tl{
18507   \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
18508     \tl_set:Nx\l_mix_vidx_tl{/ \l_tmpb_tl}
18509   }{
18510     \regex_match:nVTF{^\d+$}\l_tmpb_tl{
18511       \tl_set:Nx\l_mix_vidx_tl{~ \l_tmpb_tl}
18512     }{
18513       \regex_replace_once:nnN{^\(s*\)}\l_tmpb_tl
18514       \regex_replace_once:nnN{(s*)$}\l_tmpb_tl
18515       \tl_set:Nx\l_mix_vidx_tl{~ (\l_tmpb_tl)}
18516     }
18517   }
18518 }
18519 \mix_pdfobj:nnn{}{dict}{
18520   /S/JavaScript/JS~(
18521     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18522     if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18523       annotRM['\l_tmpa_tl']=
18524       this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18525     }
18526     annotRM['\l_tmpa_tl'].activated=true;
18527   )
18528   \tl_if_blank:VF\l_tmpb_tl{
18529     /Next~<<
18530     /S/GoTo3DView
18531     /TA~\tl_use:c{ann@\l_tmpa_tl}
18532     /V\l_mix_vidx_tl
18533     >>
18534   }
18535 }
18536 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18537 }
18538 }{
18539   \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
18540   \cs_if_exist:NF\g_mix_refundefwarned_tl{
18541     \tl_new:N\g_mix_refundefwarned_tl
18542     \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
18543   }
18544 }
18545 },
18546 3Dgotoview .value_required:n = {true},
18547
18548 mediacommand .code:n = {
18549   \tl_set:Nx\l_tmpa_tl{#1}
18550   \regex_replace_once:nnN{([^\:]+\:)?\:}{\1}\l_tmpa_tl %extract ref
18551   \tl_trim_spaces:N\l_tmpa_tl
18552   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18553     \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18554       \tl_set:Nx\l_tmpb_tl{#1}
18555       \regex_replace_once:nnN{[^\:]+\:}{\l_tmpb_tl}
18556       \tl_trim_spaces:N\l_tmpb_tl
18557       \regex_replace_all:nnN{^\(|\|}$}\l_tmpb_tl

```



```

18558 \tl_set:Nx\l_mix_cmd_tl{
18559   \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
18560 \tl_trim_spaces:N\l_mix_cmd_tl
18561 \tl_set:Nx\l_mix_arg_tl{
18562   \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
18563 \tl_trim_spaces:N\l_mix_arg_tl
18564 \mix_pdfobj:nnn{}{dict}{
18565   /S/JavaScript/JS~(
18566     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18567     if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18568       annotRM['\l_tmpa_tl']=
18569         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18570     }
18571     annotRM['\l_tmpa_tl'].activated=true;
18572   )
18573 \tl_if_blank:VF\l_mix_cmd_tl{
18574   /Next~<<
18575   /S/RichMediaExecute
18576   /TA~\tl_use:c{ann@\l_tmpa_tl}
18577   /TI~\tl_use:c{main@\l_tmpa_tl}
18578   /CMD~<<
18579   /C~(\l_mix_cmd_tl)
18580   \tl_if_blank:VF\l_mix_arg_tl{
18581     /A~[\l_mix_arg_tl]
18582   }
18583   >>
18584   >>
18585 }
18586 }
18587 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18588 }
18589 }{
18590   \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
18591   \cs_if_exist:NF\g_mix_refundefwarned_tl{
18592     \tl_new:N\g_mix_refundefwarned_tl
18593     \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
18594   }
18595 }
18596 },
18597 mediacommand .value_required:n = {true},
18598
18599 jsaction .code:n = {
18600   \tl_set:Nx\l_tmpa_tl{#1}
18601   \regex_match:nVTF{^[^{}:]+:.*$}\l_tmpa_tl{
18602     \regex_replace_once:nnN{([^\:]+):??.*}{\1}\l_tmpa_tl %extract ref
18603   }{\tl_clear:N\l_tmpa_tl}
18604   \tl_set:Nx\l_tmpb_tl{#1}
18605   \tl_if_blank:VF\l_tmpa_tl{
18606     \tl_if_exist:cF{ann@\l_tmpa_tl}{
18607       \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
18608       \cs_if_exist:NF\g_mix_refundefwarned_tl{
18609         \tl_new:N\g_mix_refundefwarned_tl
18610         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}

```



```

18612     }
18613   }
18614   \regex_replace_once:nnN{[^\:]+\:}{\l_tmpb_tl
18615 }
18616 \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
18617 \tl_trim_spaces:N\l_tmpb_tl
18618 \tl_if_blank:VF\l_tmpb_tl{
18619 \mix_pdfobj:nnn{}{dict}}{
18620 /S/JavaScript/JS~(
18621   try{\l_tmpb_tl}catch(e){console.show();console.println(e)}}}
18622 \bool_lazy_and:nnT{
18623   \tl_if_exist_p:c{ann@\l_tmpa_tl}
18624 }{
18625   !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18626 }{
18627   \mix_pdfobj:nnn{}{dict}{
18628     /S/JavaScript/JS~(
18629       if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18630       if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18631         annotRM['\l_tmpa_tl']=
18632         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18633       }
18634       annotRM['\l_tmpa_tl'].activated=true;
18635     )
18636     \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
18637   }
18638 }
18639 \bool_if:nT{
18640   \bool_lazy_and_p:nn{
18641     \tl_if_exist_p:c{ann@\l_tmpa_tl}
18642   }{
18643     !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18644   }
18645   || !\tl_if_blank_p:V\l_tmpb_tl
18646 }{
18647   \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18648 }
18649 },
18650 jsaction .value_required:n = {true},
18651
18652 unknown .code:n = {
18653   \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
18654 }
18655 }
18656
18657 \RenewDocumentCommand\includemedia{0{}mm}{%#1 options, #2 text/image #3 media file
18658 \mix_uriend:
18659 \group_begin:
18660 \mix_beginLTR:
18661 \mode_leave_vertical:
18662 %empty stream as appearance dummy
18663 \cs_if_exist:NF\g_mix_appearance_tl{
18664   \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}}
18665   \mix_pdfxform:n{\l_mix_poster_box}

```



```

18666 \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
18667 }
18668 \mix_reset:
18669 \mix_uribegin: %treat URI characters correctly
18670 \keys_set:nn{media9/user}{#1}
18671 \mix_uriend:
18672 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
18673 \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
18674 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
18675 \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
18676 \tl_gtrim_spaces:N\g_mix_flashvars_tl
18677
18678 \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
18679
18680 %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
18681 %\hbox_set:Nn\l_mix_poster_box{#2}
18682 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18683 \mix_scale:n{\l_mix_poster_box}
18684 \bool_if:nTF{
18685   \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
18686   \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
18687 }{
18688   \tl_gset:Nn\g_mix_usrpbtn_tl{none}
18689 }
18690 \bool_if:NTF\g_mix_usrdraft_bool{
18691   \tl_if_empty:NF\g_mix_usrlabel_tl{
18692     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
18693   }
18694   \tl_if_blank:oTF{#2}{
18695     \mix_uribegin: %treat URI characters correctly
18696     \mix_draftbox:n{\tl_to_str:n{#3}}
18697     \mix_uriend:
18698   }{
18699     \hbox_to_wd:nn{\g_mix_wd_tl}{
18700       \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
18701       \box_use:N\l_mix_poster_box\hss
18702     }
18703   }
18704 }{
18705   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
18706     %attach script that switches off play button overlay upon activation
18707     \mix_pdfobj:nnn{}{stream}{
18708       {}{
18709         var~ocgs=host.getOCGs(host.pageNum);
18710         for(var~i=0;i<ocgs.length;i++){
18711           if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){
18712             ocgs[i].state=false;
18713           }
18714         }
18715       }
18716     }
18717     \mix_pdfobj:nnn{}{dict}{
18718       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
18719     }

```



```

18720 \tl_gset:Nx\g_mix_assets_tl{(btnoff)-\mix_pdflastobj:}
18721 \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
18722 %enforce plain playbutton overlay for XeTeX
18723 \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
18724 }
18725 %embed main asset
18726 \mix_uribegin:
18727 \mix_embedasset:n{#3}
18728 \bool_if:nTF{
18729 \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
18730 }{
18731 \bool_gset_true:N\g_mix_iiid_bool
18732 \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
18733 }{
18734 \str_case_e:nnF{\l_mix_base_tl}{
18735 {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18736 {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18737 {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18738 {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18739 {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18740 }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
18741 }
18742 \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
18743 \mix_uriend:
18744 %secondary assets (added by addresource)
18745 \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
18746 \seq_map_inline:Nn\g_mix_script_seq{
18747 \mix_embedasset:n{##1}
18748 \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
18749 }
18750 %attach 3D calculation script
18751 \bool_if:nTF{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
18752 \mix_embedasset:n{3Dmenu.js}
18753 \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
18754 }
18755 %create 3D views from file (option 3Dviews)
18756 \bool_if:nTF{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
18757 \tl_set:Nn\l_mix_level_tl{-1}
18758 \int_zero:N\l_mix_viewcnt_int
18759 \int_zero:N\l_mix_lineno_int
18760
18761 \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
18762 \ior_map_inline:Nn\l_mix_vfile_stream{
18763 \int_incr:N\l_mix_lineno_int
18764 \keys_set:nn{media9/views}{##1} %process input line
18765 }
18766 \ior_close:N\l_mix_vfile_stream
18767 }
18768 \bool_if:nTF{ %create default 3D view if required
18769 \g_mix_iiid_bool &&
18770 (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
18771 }{
18772 \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
18773 \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl

```



```

18774 \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
18775 \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
18776 \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
18777 \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
18778 \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
18779
18780 \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
18781 \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
18782 \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
18783 \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
18784
18785 \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
18786 \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
18787 \tl_clear:N\l_mix_naarray_tl
18788
18789 \bool_if:NF\l_mix_ciiw_bool{
18790   \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
18791   \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
18792 }
18793
18794 \tl_clear:N\l_mix_naarray_tl
18795 \tl_clear:N\l_mix_saarray_tl
18796 \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
18797
18798 \mix_view:n{Default}
18799 \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
18800
18801 }
18802 \mix_pdfobj:nnn{}{dict}{
18803   /Type/RichMediaInstance
18804   /Subtype/\g_mix_mainassetsub_tl
18805   /Asset~\g_mix_mainasset_tl
18806   \bool_if:NF\g_mix_iiid_bool{
18807     /Params~<<
18808     /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
18809       /Foreground
18810     }{
18811       /Background
18812     }
18813     \tl_if_blank:VF\g_mix_flashvars_tl{
18814       /FlashVars~(\g_mix_flashvars_tl)
18815     }
18816     >>
18817   }
18818 }
18819 \tl_if_empty:NF\g_mix_usrlabel_tl{
18820   \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
18821 }
18822 \mix_pdfobj:nnn{}{dict}{
18823   /Type/RichMediaConfiguration
18824   /Subtype/\g_mix_mainassetsub_tl
18825   /Instances~[\mix_pdflastobj:]
18826 }
18827 \mix_pdfobj:nnn{}{dict}{

```





```

18828 /Type/RichMediaContent
18829 /Assets~<</Names~[\g_mix_assets_tl]>>
18830 /Configurations~[\mix_pdflastobj:]
18831 \bool_if:nT{
18832   \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
18833 }{
18834   /Views~[\l_mix_iiidviewarray_tl]
18835 }
18836 }
18837 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
18838 \bool_if:nT{
18839   \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
18840 }{
18841   \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
18842 }
18843 %determine floating window size
18844 \bool_if:NT\g_mix_opt_windowed_bool{
18845   \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
18846 }
18847 \mix_pdfobj:nnn{}{dict}{
18848   /Activation~<<
18849   /Condition\g_mix_act_tl
18850   \bool_if:nT{
18851     \g_mix_iiid_bool &&
18852     !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
18853   }{%seems to work only with 3D content
18854     /Animation~<<
18855     /Subtype/\g_mix_playtpe_tl
18856     /PlayCount~\g_mix_playcnt_tl
18857     /Speed~\g_mix_playspd_tl
18858     >>
18859   }
18860   \bool_if:nT{
18861     \g_mix_iiid_bool && (
18862       \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
18863     )
18864   }{/View~\l_mix_dfltview_tl}
18865   /Presentation~<<
18866   /Transparent~\g_mix_transp_tl
18867   \bool_if:NTF\g_mix_opt_windowed_bool{
18868     /Style/Windowed
18869     /Window~<<
18870     /Width~<</Default~\tl_mix_fltd>>
18871     /Height~<</Default~\tl_mix_fltht>>
18872     /Position~<<
18873     /HOffset~0/VOffset~0
18874     \str_case_e:nnF{\g_mix_winpos_tl}{
18875       {tl}{/VAlign/Near/HAlign/Near}
18876       {cl}{/VAlign/Center/HAlign/Near}
18877       {bl}{/VAlign/Far/HAlign/Near}
18878       {bc}{/VAlign/Far/HAlign/Center}
18879       {br}{/VAlign/Far/HAlign/Far}
18880       {cr}{/VAlign/Center/HAlign/Far}
18881       {tr}{/VAlign/Near/HAlign/Far}

```



```

18882         {tc}{/VAlign/Near/HAlign/Center}
18883     }{/HAlign/Center/VAlign/Center}
18884     >>
18885     >>
18886     }{
18887         /Style/Embedded
18888     }
18889     \bool_if:NTF\g_mix_iiid_bool{
18890         /Toolbar~\g_mix_tools_tl
18891         /NavigationPane~\g_mix_nav_tl
18892     }{
18893         /PassContextClick~\g_mix_contextclick_tl
18894     }
18895     >>
18896     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
18897     >>
18898     /Deactivation~<</Condition\g_mix_deact_tl>>
18899 }
18900 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
18901 \tl_if_empty:NF\g_mix_usrlabel_tl{
18902     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
18903 }
18904 % #1:width, #2:height, #3:depth, #4:content (key-value)
18905 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
18906     /Subtype/RichMedia
18907     /F-4
18908     /BS~<</W-0/S/S>>
18909     /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
18910     /NM~(\g_mix_label_tl)
18911     /AP~<</N~\g_mix_appearance_tl>>
18912     /RichMediaSettings~\l_mix_settings_tl
18913     /RichMediaContent~\l_mix_content_tl
18914 }
18915 \tl_if_empty:NF\g_mix_usrlabel_tl{
18916     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
18917     \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
18918         \noexpand\the\g@mix@page@int}
18919 }
18920 \mix_pdfobj:nnn{}{dict}{
18921     /S/JavaScript/JS~(
18922     try{
18923         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18924         if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
18925             annotRM['\g_mix_label_tl']=
18926                 this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
18927         }
18928         \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
18929             if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
18930                 var~ocgs=this.getOCGs(this.pageNum);
18931                 for(var~i=0;i<ocgs.length;i++){
18932                     if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
18933                         var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
18934                     }
18935                 }

```



```

18936         }
18937         if(
18938             !annotRM['\g_mix_label_tl'].activated&&(
18939                 app.viewerType=='Reader' ||
18940                 app.viewerType=='Exchange' ||
18941                 app.viewerType=='Exchange-Pro'
18942             )&&app.viewerVersion>=9
18943         ){
18944             ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
18945         }
18946     }
18947 }catch(e){}
18948 this.dirty=false;
18949 )
18950 }
18951 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
18952     /Subtype/Widget
18953     /FT/Btn/Ff~65537/F~2
18954     /BS~<</W~0>>
18955     /T~(fd@\g_mix_label_tl)
18956     /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
18957 }
18958 \mix_appendtofields:n{\mix_pdflastann:}
18959 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
18960 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
18961     \hbox_to_wd:nn{\g_mix_wd_tl}{
18962         \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
18963     }
18964 }{%insert play button overlay
18965     \mix_insert_btnocg: %create OCG
18966     \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
18967     \group_begin:
18968     \cs_if_exist:NT\textdir{\textdir TLT}
18969     \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
18970     \box_move_down:nn{\g_mix_dp_tl}{
18971         \hbox_to_wd:nn{\g_mix_wd_tl}{
18972             \vbox_to_ht:nn{\g_mix_tt_tl}{
18973                 \vss
18974                 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
18975                 \box_use:N\l_mix_pbtn_box
18976                 \ocgbase_oc_emc:
18977             }
18978         }
18979     }
18980     \group_end:
18981 }
18982 \int_gincr:N\g_mix_rmcnt_int
18983 }
18984 \mix_endLTR:
18985 \group_end:
18986 }
18987 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
18988 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
18989

```



```

18990 \RenewDocumentCommand\mediabutton{0{m}}{%#1 options, #2 normal button text
18991   \mix_urriend:
18992   \group_begin:
18993   \mix_beginLTR:
18994   \mode_leave_vertical:
18995   %reset various variables
18996   \tl_gclear:N\g_mix_overbtn_tl
18997   \tl_gclear:N\g_mix_downbtn_tl
18998   \tl_gclear:N\g_mix_btnactions_tl
18999   \tl_gclear:N\g_mix_tooltip_tl
19000   %process options
19001   \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
19002   \mix_uribegin: %treat URI characters correctly
19003   \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
19004   \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
19005   \mix_urriend:
19006   %normal button appearance
19007   %\hbox_set:Nn\l_mix_poster_box{#2}
19008   \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
19009   \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
19010   \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
19011   \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
19012   \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
19013     \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{
19014       \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
19015     \mix_pdfxform:n{\l_mix_poster_box}
19016     \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
19017     %insert widget annotation
19018     \mix_pdfannot:nnnn{\width}{\height}{\depth}{
19019       /Subtype/Widget
19020       /T~(mbtn@int_use:N\g_mix_mbtncnt_int)
19021       \tl_if_empty:NF\g_mix_tooltip_tl{TU~(\g_mix_tooltip_tl)}
19022       /FT/Btn/Ff~65536
19023       \tl_if_empty:NTF\g_mix_downbtn_tl{H/I}{H/P}
19024       /AP~<<
19025       /N~\g_mix_normalbtn_tl
19026       \tl_if_empty:NF\g_mix_overbtn_tl{R~\g_mix_overbtn_tl}
19027       \tl_if_empty:NF\g_mix_downbtn_tl{D~\g_mix_downbtn_tl}
19028     >>
19029     /MK~<<
19030     /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
19031     /I~\g_mix_normalbtn_tl
19032     \tl_if_empty:NF\g_mix_overbtn_tl{RI~\g_mix_overbtn_tl}
19033     \tl_if_empty:NF\g_mix_downbtn_tl{IX~\g_mix_downbtn_tl}
19034     >>
19035     /A~<<
19036     /S/JavaScript/JS~(app.focusRect=false;)
19037     %sequence of actions to perform
19038     \tl_if_empty:NF\g_mix_btnactions_tl{Next~[\g_mix_btnactions_tl]}
19039     >>
19040   }
19041   \mix_appendtofields:n{\mix_pdflastann:}
19042   \hbox_to_wd:nn{\width}{
19043     \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss

```



```

19044     }
19045     \int_gincr:N\g_mix_mbtncnt_int
19046   }
19047   \mix_endLTR:
19048   \group_end:
19049 }
19050 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
19051 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
19052

```

## 116 File memoir-xetex-bidi.def

```

19053 \ProvidesFile{memoir-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for memoir class for Xe
19054 \renewcommand{\keepthetitle}{%
19055   \@bsmttitleempty
19056   \global\let\thanks\relax
19057   \global\let\LTRthanks\relax
19058   \global\let\RTLthanks\relax
19059   \global\let\and\relax
19060   \global\let\andnext\relax
19061   \global\let\@thanks\@empty
19062   \global\let\@title\@empty
19063   \global\let\@author\@empty
19064   \global\let\@date\@empty}
19065 \renewcommand{\maketitle}{\par
19066   \beginingroup
19067     \@bsmarkseries
19068     \def\@makefnmark{\@textsuperscript{%
19069       \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}}%
19070     \long\def\@makefntext##1{\makethanksmark ##1}
19071     \if@twocolumn
19072       \ifnum \col@number=\@one
19073         \@maketitle
19074       \else
19075         \twocolumn[\@maketitle]%
19076       \fi
19077     \else
19078       \ifdim\pagetotal>\z@
19079         \newpage
19080       \fi
19081       \global\@topnum\z@
19082       \@maketitle
19083     \fi
19084     \thispagestyle{title}\@thanks
19085   \endgroup
19086   \@bscontmark % \setcounter{footnote}{0}%
19087 }
19088 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
19089 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
19090 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
19091 \renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
19092 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
19093 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
19094 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}

```



```

19095 \renewcommand*{\thesubsection}{%
19096         \thesection\@SepMark\@arabic\c@subsection}
19097 \renewcommand*{\thesubsubsection}{%
19098         \thesubsection\@SepMark\@arabic\c@subsubsection}
19099 \renewcommand*{\theparagraph}{%
19100         \thesubsubsection\@SepMark\@arabic\c@paragraph}
19101 \renewcommand*{\thesubparagraph}{%
19102         \theparagraph\@SepMark\@arabic\c@subparagraph}
19103 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
19104 \renewcommand{\theequation}{%
19105     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19106 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
19107 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
19108 \ifartopt
19109     \chapterstyle{article}
19110     \counterwithout{figure}{chapter}
19111     \counterwithout{table}{chapter}
19112     \counterwithout{footnote}{chapter}
19113     \counterwithout{equation}{chapter}
19114     \renewcommand{\chaptername}{}
19115     \renewcommand{\maketitlehookb}{%
19116         \vskip -1.5\topsep\vskip -1.5\partopsep}
19117     \renewcommand{\maketitlehookc}{%
19118         \vskip -1.5\topsep\vskip -1.5\partopsep}
19119 \fi
19120 \long\def\@makecaption#1#2{\let\@memtempa\relax
19121     \ifdim\prevdepth>-99\p@ \vskip\abovcaptionskip
19122     \else \def\@memtempa{\vbox to\topskip{}}\fi
19123     \let\@contfnote\footnote \renewcommand{\footnote}[2]{}{}
19124     \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1]{}{}
19125     \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
19126     \let\footnote\@contfnote
19127     \let\footnotemark\@contfmark
19128     \ifdim\wd\@tempboxa<\linewidth \centering \fi
19129     \if@contcw
19130         \centering
19131         \parbox{\@contcwidth}{%
19132             \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
19133         }
19134     \ifdim\wd\@tempboxa<\linewidth
19135         \@contpre
19136         {\@contnfont #1\@contdelim}\@memtempa
19137         {\@contcshortstyle \@conttfont #2\@contfinal\par}
19138     \else
19139         \if@conthang
19140             \sbox\@tempboxa{\@contnfont #1\@contdelim}
19141             \@contpre%
19142             {\@contcstyle\hangindent=\wd\@tempboxa
19143                 \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
19144         \else
19145             \if@contindent
19146                 \@contpre%
19147                 {\@contnfont #1\@contdelim}\@memtempa
19148                 {\@contcstyle\hangindent=\@contindw

```



```

19149             \hangafter=\@ne\@conttfont #2\@contfinal\par}% <- v1.4
19150         \else
19151             \@contpre%
19152             {\@contnfont #1\@contdelim}\@memtempa
19153             {\@contcstyle \@conttfont #2\@contfinal\par}
19154         \fi
19155     \fi
19156 \fi
19157 \@contpost
19158 \if@contcw
19159     \par
19160 } % end of the \parbox
19161 \fi
19162 \vskip\belowcaptionskip}
19163 \ApplyPatchCodeToPackage{caption}{%
19164 \AtBeginPackage{caption}{
19165 \ClassWarningNoLine{memoir}{%
19166 You are using the caption package with the memoir \MessageBreak
19167 class. This may cause unexpected or inconsistent \MessageBreak
19168 results if you use any of memoir's captioning facilities}
19169
19170 \long\def\@makecaption##1##2{%
19171 \vskip\abovecaptionskip
19172 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
19173 \ifdim \wd\@tempboxa >\hsize
19174 \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
19175 \else
19176 \global \@minipagefalse
19177 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
19178 \fi
19179 \vskip\belowcaptionskip}
19180
19181 \def\caption{%
19182 \ifx\@captive\@undefined
19183 \latex@error{noexpand\caption outside float}\@ehd
19184 \expandafter\@gobble
19185 \else
19186 \refstepcounter\@captive
19187 \expandafter\@firstofone
19188 \fi
19189 {\@dblarg{\@caption\@captive}}%
19190 }
19191
19192 \long\def\@caption##1[##2]##3{%
19193 \par
19194 \addcontentsline{\csname ext@##1\endcsname}{##1}%
19195 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
19196 \begingroup
19197 \@parboxrestore
19198 \if@minipage
19199 \setminipage
19200 \fi
19201 \normalsize
19202 \@makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par

```



```

19203 \endgroup}
19204 }}
19205 \renewenvironment{thebibliography}[1]{%
19206 \bibsection
19207 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19208 \bidi@thebibliography@font@hook%
19209 \begin{bibitemlist}{#1}}{\end{bibitemlist}}\postbibhook}

```

## 117 File midfloat-xetex-bidi.def

```

19210 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
19211 \def\RTL@outputdblcol{%
19212 \if@firstcolumn
19213 \global \@firstcolumnfalse
19214 \global\setbox\@leftcolumn\copy\@outputbox
19215 \splitmaxdepth\maxdimen
19216 \vbadness\maxdimen
19217 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19218 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19219 \toks@{\expandafter{\topmark}}%
19220 \xdef\@firstcoltopmark{\the\toks@}%
19221 \toks@{\expandafter{\splitfirstmark}}%
19222 \xdef\@firstcolfirstmark{\the\toks@}%
19223 \ifx\@firstcolfirstmark\@empty
19224 \global\let\@setmarks\relax
19225 \else
19226 \gdef\@setmarks{%
19227 \let\firstmark\@firstcolfirstmark
19228 \let\topmark\@firstcoltopmark}%
19229 \fi
19230 \global\c@colht\@colht\global\c@advvipersep\z@
19231 \ifnum\jua@sk>0
19232 \remove@strip\jua@sar
19233 \global\@colht\the\jua@pr
19234 \ifdim\right@cor>\z@
19235 \global\advance\@colht by\right@cor
19236 \fi
19237 \global\advance\@colht by\cor@height
19238 \global\cor@height=0pt
19239 \fi
19240 \global\setbox\@rightcolumn\vbox{}%
19241 \else
19242 \ifdim\c@colht>\@colht
19243 \@tempdima\@colht
19244 \ifdim\@colht>\z@
19245 \global\setbox\@rightcolumn\vbox{%
19246 \unvbox\@rightcolumn
19247 \vbox to\@tempdima{%
19248 \vskip\c@advvipersep\unvbox\@outputbox}%
19249 \vskip\stripsep
19250 \vrule height\the\jua@ht width 0pt depth 0pt
19251 \vskip\stripsep
19252 }%
19253 \global\c@advvipersep\m@advvipersep

```





```

19254         \else
19255         \global\setbox\@rightcolumn \vbox{%
19256             \unvbox\@rightcolumn
19257             \vrule height\the\jua@ht width 0pt depth 0pt
19258             \vskip\stripsep
19259         }%
19260     \fi
19261     \ifnum\jua@sk>0
19262         \remove@strip\jua@sar
19263         \global\@colht\the\jua@pr
19264         \global\advance\@colht by -\ht\@rightcolumn
19265         \global\advance\@colht by\cor@height
19266         \global\cor@height=0pt
19267     \else
19268         \global\advance\c@colht by-\ht\@rightcolumn
19269         \global\@colht\c@colht
19270     \fi
19271 \else
19272 \global\@firstcolumntrue
19273 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19274     \unvbox\@rightcolumn
19275     \vskip\c@addvipersep
19276     \unvbox\@outputbox
19277 }%
19278 \setbox\@outputbox \vbox {%
19279     \hb@xt@\textwidth {%
19280         \hskip \columnwidth
19281         \hfil
19282         \vrule \@width\columnseprule
19283         \hfil
19284         \hb@xt@\columnwidth {%
19285             \bidi@firstcolumn@status@write%
19286             \box\@leftcolumn \hss}%
19287         \hskip-\textwidth
19288         \hb@xt@\columnwidth {%
19289             \bidi@lastcolumn@status@write%
19290             \box\@outputbox \hss}%
19291         \hskip\columnwidth
19292         \hskip\columnsep}%
19293     }%
19294 \@combinedblfloats
19295 \@setmarks
19296 \@outputpage
19297 \begingroup
19298     \@dblfloatplacement
19299     \@startdblcolumn
19300     \@whiles\if@fcolmade \fi
19301     {\@outputpage
19302     \@startdblcolumn}%
19303 \endgroup
19304 \global\jua@sk=0\global\jua@sar={}%
19305 \global\cor@height\z@\global\c@addvipersep\z@
19306 \fi
19307 \fi

```



```

19308 }
19309
19310
19311 \def\LTR@outputdblcol{%
19312   \if@firstcolumn
19313     \global \@firstcolumnfalse
19314     \global\setbox\@leftcolumn\copy\@outputbox
19315     \splitmaxdepth\maxdimen
19316     \vbadness\maxdimen
19317     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19318     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19319     \toks@\expandafter{\topmark}%
19320     \xdef\@firstcoltopmark{\the\toks@}%
19321     \toks@\expandafter{\splitfirstmark}%
19322     \xdef\@firstcolfirstmark{\the\toks@}%
19323     \ifx\@firstcolfirstmark\@empty
19324       \global\let\@setmarks\relax
19325     \else
19326       \gdef\@setmarks{%
19327         \let\firstmark\@firstcolfirstmark
19328         \let\topmark\@firstcoltopmark}%
19329     \fi
19330     \global\c@colht\@colht\global\c@advvipersep\z@
19331     \ifnum\jua@sk>0
19332       \remove@strip\jua@sar
19333       \global\@colht\the\jua@pr
19334       \ifdim\right@cor>\z@
19335         \global\advance\@colht by\right@cor
19336       \fi
19337       \global\advance\@colht by\cor@height
19338       \global\cor@height=0pt
19339     \fi
19340     \global\setbox\@rightcolumn\vbox{%
19341   \else
19342     \ifdim\c@colht>\@colht
19343       \@tempdima\@colht
19344       \ifdim\@colht>\z@
19345         \global\setbox\@rightcolumn\vbox{%
19346           \unvbox\@rightcolumn
19347           \vbox to\@tempdima{%
19348             \vskip\c@advvipersep\unvbox\@outputbox}%
19349           \vskip\stripsep
19350           \vrule height\the\jua@ht width 0pt depth 0pt
19351           \vskip\stripsep
19352           }%
19353         \global\c@advvipersep\m@advvipersep
19354       \else
19355         \global\setbox\@rightcolumn\vbox{%
19356           \unvbox\@rightcolumn
19357           \vrule height\the\jua@ht width 0pt depth 0pt
19358           \vskip\stripsep
19359           }%
19360     \fi
19361     \ifnum\jua@sk>0

```



```

19362         \remove@strip\jua@sar
19363         \global\@colht\the\jua@pr
19364         \global\advance\@colht by -\ht\@rightcolumn
19365         \global\advance\@colht by\cor@height
19366         \global\cor@height=0pt
19367     \else
19368         \global\advance\c@colht by-\ht\@rightcolumn
19369         \global\@colht\c@colht
19370     \fi
19371 \else
19372     \global\@firstcolumntrue
19373     \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19374         \unvbox\@rightcolumn
19375         \vskip\c@addvipersep
19376         \unvbox\@outputbox
19377     }%
19378     \setbox\@outputbox \vbox {%
19379         \hb@xt@\textwidth {%
19380             \hb@xt@\columnwidth {%
19381                 \bidi@firstcolumn@status@write%
19382                 \box\@leftcolumn \hss}%
19383             \hfil
19384             \vrule \@width\columnseprule
19385             \hfil
19386             \hb@xt@\columnwidth {%
19387                 \bidi@lastcolumn@status@write%
19388                 \box\@outputbox \hss}%
19389             }%
19390         }%
19391     \@combinedblfloats
19392     \@setmarks
19393     \@outputpage
19394     \begingroup
19395         \@dblfloatplacement
19396         \@startdblcolumn
19397         \@whilesw\if@fcolmade \fi
19398             {\@outputpage
19399                 \@startdblcolumn}%
19400     \endgroup
19401     \global\jua@sk=0\global\jua@sar={}%
19402     \global\cor@height\z@\global\c@addvipersep\z@
19403     \fi
19404 \fi
19405 }
19406
19407
19408 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
19409     \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
19410         \hsize\textwidth
19411         \@parboxrestore
19412         \col@number \@ne
19413         \vrule height\topskip width0pt depth0pt
19414 }
19415

```



```

19416 \def\endstrip{%
19417     \egroup\egroup
19418     \if@firstcolumn
19419         \ifdim\pagetotal>\z@
19420             \vskip\stripsep
19421             \global\ht@strip\pagegoal
19422             \global\advance\ht@strip by-\pagetotal
19423             \global\advance\ht@strip by-\stripsep
19424             \global\advance\ht@strip by-\ht@viper
19425             \global\advance\ht@strip by-\stripsep
19426             \global\jua@ht=\ht@viper
19427         \else
19428             \global\ht@strip\z@
19429         \fi
19430     \ifdim\ht@strip>\z@
19431         \unvbox\@viper
19432         \vskip\stripsep
19433         \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
19434         \global\advance\jua@sk by1
19435     \else
19436         \@latex@error{Strip needs more place!}\@ehc
19437         \if@vihproof
19438             \framebox[\columnwidth]{??? Strip ???}%
19439         \fi
19440     \fi
19441 \else
19442     \@latex@error{Strip is used only on left column!}\@ehc
19443     \if@vihproof
19444         \framebox[\columnwidth]{??? Strip ???}%
19445     \fi
19446 \fi
19447 }

```

## 118 File minitoc-xetex-bidi.def

```

19448 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
19449 \def\@undottedtocline#1#2#3#4#5{%
19450     \ifnum #1>\c@tocdepth\relax \else
19451         \vskip \z@ plus.2\p@
19452         {\ifRTL\rightskip\else\leftskip\fi #2\relax \ifRTL\leftskip\else\rightskip\fi \@tocrmarg
19453         \parindent #2\relax\@afterindenttrue
19454         \interlinepenalty\@M
19455         \leavevmode
19456         \@tempdima #3\relax \advance\ifRTL\rightskip\else\leftskip\fi \@tempdima \hbox{}%
19457         \hskip -\ifRTL\rightskip\else\leftskip\fi
19458         #4\nobreak\hfill\nobreak
19459         \null\par}%
19460     \fi}
19461 \def\@Undottedtocline#1#2#3#4#5{%
19462     \ifnum #1>\c@tocdepth\relax \else
19463         \vskip \z@ \@plus.2\p@
19464         {\ifRTL\rightskip\else\leftskip\fi #2\relax \ifRTL\leftskip\else\rightskip\fi \@tocma
19465         \parindent #2\relax\@afterindenttrue
19466         \interlinepenalty\@M

```



```

19467 \leavevmode
19468 \@tempdima #3\relax
19469 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19470 {\coffefont #4}\nobreak \nobreak\null
19471 \par}%
19472 \fi}
19473 \def\@Undottedtoclinep#1#2#3#4#5{%
19474 \ifnum #1>\c@tocdepth\relax \else
19475 \vskip \z@ \@plus.2\p@
19476 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocma
19477 \parindent #2\relax\@afterindenttrue
19478 \interlinepenalty\@M
19479 \leavevmode
19480 \@tempdima #3\relax
19481 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19482 {#4}\nobreak \hfill \nobreak\null
19483 \hb@xt@\@pnumwidth{\{\hfil\normalfont \normalcolor #5}\}%
19484 \par}%
19485 \fi}

```

## 119 File multicol-xetex-bidi.def

```

19486 \ProvidesFile{multicol-xetex-bidi.def}[2022/07/10 v1.4 bidi adaptations for multicol package]
19487 \def\page@sofar{%
19488 \process@cols\mult@rightbox
19489 {\ifvoid\count@
19490 \setbox\count@\hbox to\hsize{%
19491 \else
19492 \wd\count@\hsize
19493 \fi}%
19494 \count@\col@number \advance\count@\m@ne
19495 \mult@info\z@
19496 {Column spec: \the\full@width\space = indent
19497 + columns + sep =\MessageBreak
19498 \the\multicol@leftmargin\space
19499 + \the\col@number\space
19500 x \the\hsize\space
19501 + \the\count@\space
19502 x \the\columnsep
19503 }%
19504 \ifvmode\else\errmessage{Multicol Error}\fi
19505 \nointerlineskip
19506 \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
19507 \moveright\multicol@leftmargin
19508 \hbox to\full@width{%
19509 \bidi@multicol@align@columns
19510 \rlap{\phantom p}%
19511 }%
19512 \prevdepth\z@
19513 \kern-\dimen\tw@
19514 \ifdim\dimen\tw@ > \mc@gridwarn
19515 \PackageWarning{multicol}%
19516 {Very deep columns!\MessageBreak
19517 Grid alignment might be broken}%

```



```

19518 \fi
19519 }
19520 \def\LTR@column@boxes{%
19521     \process@cols\mult@firstbox{%
19522         \ifdim\dp\count@>\dimen\tw@
19523             \global\dimen\tw@\dp\count@ \fi
19524         \mc@col@status@write
19525         \box\count@
19526         \hss{\columnseprulecolor\vrule
19527             \@width\columnseprule}\hss}%
19528     \ifdim\dp\mult@rightbox>\dimen\tw@
19529         \global\dimen\tw@\dp\mult@rightbox \fi
19530     \mc@lastcol@status@write
19531     \box\mult@rightbox
19532 }
19533
19534 \def\RTL@column@boxes{%
19535     \process@cols\mult@firstbox{%
19536         \hskip\hsize
19537         \hss{\columnseprulecolor\vrule
19538             \@width\columnseprule}\hss
19539     }%
19540     \hskip\hsize
19541     \process@cols\mult@firstbox{%
19542         \ifdim\dp\count@>\dimen\tw@
19543             \global\dimen\tw@\dp\count@ \fi
19544         \hskip-\hsize
19545         \mc@col@status@write
19546         \box\count@
19547         \hskip-\hsize
19548         \hskip-\columnsep
19549     }%
19550     \ifdim\dp\mult@rightbox>\dimen\tw@
19551         \global\dimen\tw@\dp\mult@rightbox \fi
19552     \hskip-\hsize
19553     \mc@lastcol@status@write
19554     \box\mult@rightbox
19555     \hskip-\hsize
19556     \hskip\full@width
19557 }
19558
19559 \newcommand\RTLmulticolcolumns
19560     {\let\bidimulticol@align@columns
19561         \RTL@column@boxes}
19562 \newcommand\LTRmulticolcolumns
19563     {\let\bidimulticol@align@columns
19564         \LTR@column@boxes}
19565 \newcommand\bidimulticol@align@columns
19566     {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
19567 \bidimulticol@AtEndPreamble{%
19568     \if@bidi@csdef{footinsv[1]}{%
19569         \def\footnoterule{\kern-3\p@
19570             \hrule \@width \textwidth \kern 2.6\p@}%
19571     }{}}

```



```

19572 }
19573 \def\multicols#1{\col@number#1\relax
19574   \ifnum\col@number<\tw@
19575     \PackageWarning{multicol}%
19576       {Using `\'number\col@number'
19577         columns doesn't seem a good idea.^~J
19578         I therefore use two columns instead}%
19579     \col@number\tw@ \fi
19580   \ifnum\col@number>20
19581     \PackageError{multicol}%
19582       {Too many columns}%
19583     {Current implementation doesn't
19584       support more than 20 columns.%
19585       \MessageBreak
19586       I therefore use 20 columns instead}%
19587     \col@number20 \fi
19588     \ifx\@footnotetext\mult@footnotetext
19589     \else
19590       \let\orig@footnotetext\@footnotetext
19591       \let\@footnotetext\mult@footnotetext
19592     \fi
19593     \ifx\@LTRfootnotetext\mult@LTRfootnotetext
19594     \else
19595       \let\orig@LTRfootnotetext\@LTRfootnotetext
19596       \let\@LTRfootnotetext\mult@LTRfootnotetext
19597     \fi
19598     \ifx\@RTLfootnotetext\mult@RTLfootnotetext
19599     \else
19600       \let\orig@RTLfootnotetext\@RTLfootnotetext
19601       \let\@RTLfootnotetext\mult@RTLfootnotetext
19602     \fi
19603   \@ifnextchar[\mult@cols{\mult@cols[]}]
19604 \long\def\mult@footnotetext#1{\begingroup
19605   \hsize\textwidth
19606   \columnwidth\textwidth
19607   \orig@footnotetext{#1}\endgroup}
19608 \long\def\mult@LTRfootnotetext#1{\begingroup
19609   \hsize\textwidth
19610   \columnwidth\textwidth
19611   \orig@LTRfootnotetext{#1}\endgroup}
19612 \long\def\mult@RTLfootnotetext#1{\begingroup
19613   \hsize\textwidth
19614   \columnwidth\textwidth
19615   \orig@RTLfootnotetext{#1}\endgroup}
19616 \def\right@footnoterule{%
19617   \kern-3\p@
19618   \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
19619   \kern2.6\p@}
19620 \def\textwidth@footnoterule{\kern-3\p@
19621   \hrule \@width \textwidth \kern 2.6\p@}
19622 \def\bidileave@mult@copyins{%
19623   \advance\dimen@-\skip\@bidi@copyins@
19624   \advance\dimen@-\ht\@bidi@copyins@
19625 }

```



```

19626
19627 \bidi@AtEndPreamble{%
19628   \if@bidi@csundef{footinsv@1}{%
19629     \bidi@patchcmd{\multi@column@out}{%
19630       \ifvbox \@kludgeins
19631     }{%
19632       \ifvoid\@bidi@copyins@ \else
19633         \bidi@leave@mult@copyins
19634       \fi
19635       \ifvbox \@kludgeins
19636     }{}{}%
19637   }{}%
19638 }
19639
19640

```

## 120 File multienum-xetex-bidi.def

```

19641 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
19642 \renewcommand{\itemx}[1]{\parbox[t]%
19643 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19644 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
19645 \renewcommand{\itemxx}[2]{\parbox[t]%
19646 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19647 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19648 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19649 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
19650 \renewcommand{\itemxxx}[3]{\parbox[t]%
19651 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19652 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19653 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19654 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]%
19655 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19656 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
19657 \renewcommand{\itemxxxx}[4]{\parbox[t]%
19658 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19659 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19660 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19661 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19662 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19663 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
19664 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19665 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
19666 \renewcommand{\itemxxxxx}[5]{\parbox[t]%
19667 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19668 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
19669 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19670 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
19671 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19672 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
19673 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19674 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
19675 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19676 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip}

```





```

19677 \renewcommand{\itemxox}[2]{\parbox[t]{%
19678 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19679 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19680 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19681 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
19682 \renewcommand{\itemxxo}[2]{\parbox[t]{%
19683 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19684 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
19685 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19686 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
19687 \renewcommand{\itemxox}[3]{\parbox[t]{%
19688 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19689 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19690 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19691 \parbox[t]{0.25\remainxxx}{\bidi@raggedright #2}\hfill%
19692 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19693 \parbox[t]{0.25\remainxxx}{\bidi@raggedright #3}\smallskip}
19694 \renewcommand{\itemxxox}[3]{\parbox[t]{%
19695 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19696 \parbox[t]{.25\remainxxx}{\bidi@raggedright #1}\hfill%
19697 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19698 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
19699 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19700 \parbox[t]{0.25\remainxxx}{\bidi@raggedright #3}\smallskip}
19701 \renewcommand{\itemxxxo}[3]{\parbox[t]{%
19702 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19703 \parbox[t]{.25\remainxxx}{\bidi@raggedright #1}\hfill%
19704 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19705 \parbox[t]{.25\remainxxx}{\bidi@raggedright #2}\hfill%
19706 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19707 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```

## 121 File natbib-xetex-bidi.def

```

19708 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
19709 \renewenvironment{thebibliography}[1]{%
19710 \bibsection
19711 \parindent\z@
19712 \bibpreamble
19713 \bibfont
19714 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19715 \bidi@@thebibliography@font@hook%
19716 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
19717 \ifNAT@openbib
19718 \renewcommand\newblock{\par}%
19719 \else
19720 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
19721 \fi
19722 \sloppy\clubpenalty4000\widowpenalty4000
19723 \sfcode`. \@m
19724 \let\NAT@bibitem@first@sw\@firstoftwo
19725 \let\citeN\cite \let\shortcite\cite
19726 \let\citeasnoun\cite
19727 }{

```



```

19728 \bibitem@fin
19729 \bibpostamble
19730 \def\@noitemerr{%
19731   \PackageWarning{natbib}{Empty `thebibliography' environment}%
19732 }%
19733 \endlist
19734 \bibcleanup
19735 }%

```

## 122 File newfloat-xetex-bidi.def

```

19736 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package]
19737 \renewcommand*\newfloat@setwithin[2]{%
19738   \ifcsname c@chapter\endcsname
19739     \@removefromreset{#1}{chapter}%
19740   \fi
19741   \@removefromreset{#1}{section}%
19742   \edef\@tempa{#2}%
19743   \ifx\@tempa\@empty
19744     \def\@tempa{none}%
19745   \fi
19746   \def\@tempb{none}%
19747   \ifx\@tempa\@tempb
19748     \ifcsname c@chapter\endcsname
19749       \@chapterlistsgap@off{#1}%
19750     \fi
19751     \newfloat@@setwithin{#1}{\}{\}%
19752   \else
19753     \def\@tempb{chapter}%
19754     \ifx\@tempa\@tempb
19755       \@addtoreset{#1}{chapter}%
19756       \@chapterlistsgap@on{#1}%
19757       \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@S
19758     \else
19759       \def\@tempb{section}%
19760       \ifx\@tempa\@tempb
19761         \@addtoreset{#1}{section}%
19762         \ifcsname c@chapter\endcsname
19763           \@addtoreset{#1}{chapter}%
19764           \@chapterlistsgap@on{#1}%
19765           \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
19766         \else
19767           \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection
19768         \fi
19769       \else
19770         \newfloat@Error{Invalid value `#2' for option `within'}%
19771       \fi
19772     \fi
19773   \fi}

```

## 123 File nicematrix-xetex-bidi.def

```

19774 \ProvidesFile{nicematrix-xetex-bidi.def}[2024/12/15 v0.3 bidi adaptations for nicematrix package]
19775 \ExplSyntaxOn

```



```

19776 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{%
19777 \bool_if:NF \l__nicematrix_tabular_bool \@RTLtabfalse
19778 \@tabarray
19779 }{}{}
19780 \ExplSyntaxOff
19781

```

## 124 File ntheorem-xetex-bidi.def

```

19782 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package]
19783 \gdef\@thm#1#2#3{%
19784 \if@thmmarks
19785 \stepcounter{end\InTheoType ctr}%
19786 \fi
19787 \renewcommand{\InTheoType}{#1}%
19788 \if@thmmarks
19789 \stepcounter{curr#1ctr}%
19790 \setcounter{end#1ctr}{0}%
19791 \fi
19792 \refstepcounter{#2}%
19793 \theorem@prework
19794 \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19795 \ifvmode \advance\thm@topsepadd\partopsep\fi
19796 \trivlist
19797 \@topsep \theorempreskipamount
19798 \@topsepadd \thm@topsepadd % used by \@endparenv
19799 \advance\linewidth -\theorem@indent
19800 \advance\@totalleftmargin \theorem@indent
19801 \ifRTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19802 \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

## 125 File ntheorem-hyper-xetex-bidi.def

```

19803 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-hyper]
19804 \gdef\@thm#1#2#3{%
19805 \if@thmmarks
19806 \stepcounter{end\InTheoType ctr}%
19807 \fi
19808 \renewcommand{\InTheoType}{#1}%
19809 \if@thmmarks
19810 \stepcounter{curr#1ctr}%
19811 \setcounter{end#1ctr}{0}%
19812 \fi
19813 \refstepcounter{#2}%
19814 \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19815 \ifvmode \advance\thm@topsepadd\partopsep\fi
19816 \trivlist
19817 \@topsep \theorempreskipamount
19818 \@topsepadd \thm@topsepadd % used by \@endparenv
19819 \advance\linewidth -\theorem@indent
19820 \advance\@totalleftmargin \theorem@indent
19821 \ifRTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19822 \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```



## 126 File overpic-xetex-bidi.def

```
19823 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
19824 \renewenvironment{overpic}[2][\%
19825   \sbox{\z@}{\includegraphics[#1]{#2}}%
19826   \settodepth{\@tempcnta}{\usebox{\z@}}%
19827   \settoheight{\@tempcntb}{\usebox{\z@}}%
19828   \advance\@tempcntb\@tempcnta%
19829   \settowidth{\@tempcnta}{\usebox{\z@}}%
19830   \setlength{\@tempdima}{\unitlength}%
19831   \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
19832 %
19833   \OVP@calc%
19834 %
19835   \begin{picture}(\@tempcnta,\@tempcntb)%
19836     \ifRTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
19837     \ifGin@grid%
19838       \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19839         \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19840     \fi\fi%
19841     % reset the graphics parameter
19842     \let\Gin@outer@scalex\relax
19843     \let\Gin@outer@scaley\relax
19844     \let\Gin@angle\relax
19845     \let\Gin@ewidth\Gin@exclamation
19846     \let\Gin@eheight\Gin@ewidth
19847     \def\Gin@scalex{1}
19848     \let\Gin@scaley\Gin@exclamation
19849   }{%
19850     \ifRTL\ifGin@grid%
19851       \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19852         \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19853     \fi%
19854     \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
19855   \end{picture}%
19856 }
```

## 127 File pdfbase-xetex-bidi.def

```
19857 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package f
19858 \ExplSyntaxOn
19859 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
19860 \cs_set_nopar:Npn\@outputpage{
19861   \int_gincr:N\g_pbs_page_int
19862   \box_if_vertical:cTF{\outputbox}{
19863     \bool_set_true:N\l_pbs_is_vertical_bool
19864   }{
19865     \bool_set_false:N\l_pbs_is_vertical_bool
19866   }
19867   \hbox_set:Nn\@outputbox{
19868     %begin of page
19869     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
19870     \box_use_drop:N\@outputbox
19871     %end of page
```



```

19872 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
19873 }
19874 \bool_if:NT\l_pbs_is_vertical_bool{
19875 \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
19876 }
19877 \pbs_outputpage_orig:
19878 }
19879 \ExplSyntaxOff

```

## 128 File pdfscape-xetex-bidi.def

```

19880 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape packa
19881 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
19882 \if@RTL
19883 \PLS@Rotate{-90}%
19884 \else
19885 \PLS@Rotate{90}%
19886 \fi
19887 }{}{}

```

## 129 File pgfcorescopes.code-xetex-bidi.def

```

19888 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
19889 \def\pgfpicture{%
19890 \begingroup%
19891 \ifmmode\else\@RTLfalse\beginL\fi%
19892 \pgfpicturetrue%
19893 \global\advance\pgf@picture@serial@count by1\relax%
19894 \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
19895 \let\pgf@nodecallback=\pgfutil@gobble%
19896 \pgf@picmaxx=-16000pt\relax%
19897 \pgf@picminx=16000pt\relax%
19898 \pgf@picmaxy=-16000pt\relax%
19899 \pgf@picminy=16000pt\relax%
19900 \pgf@relevantforpicturesizetrue%
19901 \pgf@resetpathsizes%
19902 \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
19903 \def\endpgfpicture{%
19904 \ifpgfrememberpicturepositiononpage%
19905 \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
19906 \fi%
19907 % ok, now let's position the box
19908 \ifdim\pgf@picmaxx=-16000pt\relax%
19909 % empty picture. make size 0.
19910 \global\pgf@picmaxx=0pt\relax%
19911 \global\pgf@picminx=0pt\relax%
19912 \global\pgf@picmaxy=0pt\relax%
19913 \global\pgf@picminy=0pt\relax%
19914 \fi%
19915 % Shift baseline outside:
19916 \pgf@relevantforpicturesizefalse%
19917 \pgf@process{\pgf@baseline}%
19918 \xdef\pgf@shift@baseline{\the\pgf@y}%
19919 %

```



```

19920         \pgf@process{\pgf@trimleft}%
19921         \global\advance\pgf@x by-\pgf@picminx
19922         % prepare \hskip\pgf@trimleft@final.
19923         % note that \pgf@trimleft@final is also queried
19924         % by the pgf image externalization.
19925         \xdef\pgf@trimleft@final{-\the\pgf@x}%
19926         %
19927         \pgf@process{\pgf@trimright}%
19928         \global\advance\pgf@x by-\pgf@picmaxx
19929         % prepare \hskip\pgf@trimright@final.
19930         % note that \pgf@trimright@final is also queried
19931         % by the pgf image externalization.
19932         \xdef\pgf@trimright@final{\the\pgf@x}%
19933     %
19934     \pgf@remember@layerlist@globally
19935     \endgroup%
19936     \hss%
19937     \egroup%
19938     \pgf@restore@layerlist@from@global
19939     \pgf@insertlayers%
19940     \endgroup%
19941     \pgfsys@discardpath%
19942     \endgroup%
19943     \pgfsys@endscope%
19944     \pgfsys@endpicture%
19945     \endgroup%
19946     \hss
19947 \egroup%
19948 \pgfsys@typesetpicturebox\pgfpic%
19949 \ifmmode\else\endL\fi%
19950 \endgroup%
19951 }

```

### 130 File pgfsys-xetex-bidi.def

```

19952 \ProvidesFile{pgfsys-xetex-bidi.def}[2025/01/05 v0.1 bidi adaptations for pgfsys package for
19953 \def\pgfsys@shadingoutsidepgfpicture#1{%
19954     \beginL#1\endL%
19955 }
19956
19957

```

### 131 File picinpar-xetex-bidi.def

```

19958 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package
19959 \long\def\@makewincaption#1#2{%
19960     \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
19961     \ifdim\wd\@tempboxa>\picwd
19962         {\footnotesize{\bf #1:\enspace}{#2\par}}
19963     \else
19964         \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
19965     \fi}
19966 \def\endwindow{%
19967     \global\tcd=\tcdsav

```



```

19968 \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
19969 \vbadness=10000
19970 \splittopskip=0pt
19971 %
19972 % Typeset the lines above the window
19973 %
19974 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
19975 \tcn=\tcd
19976 \loop\advance\tcn -1
19977 \setbox\fslice=\vsplit\holder to\baselineskip
19978 \prune\fslice\linewidth
19979 \topheight=0pt
19980 \ifnum\dp\fslice>\dp\wstrutbox
19981 \advance\topheight-\dp\fslice
19982 \advance\topheight\dp\wstrutbox
19983 \advance\topheight\ilg\fi
19984 \hbox to\linewidth{\box\fslice}
19985 \vskip-\topheight
19986 \ifdim\ht\holder>0pt\repeat
19987 \fi
19988 %
19989 % Now we build the boxes beside the window
19990 %
19991 \global\topheight=\tcl\baselineskip
19992 \ifnum\cumpartcl>0\global\tcl=\cumtcl
19993 \global\topheight=\vpic
19994 \fi
19995 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
19996 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
19997 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
19998 \tcn=\tcl \na=0 \nb=0
19999 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
20000 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
20001 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
20002 \ifnum\na=0\ifnum\nb=0
20003 \setbox\waslice=\vbox to\vpic{\vss}
20004 \setbox\wbslice=\vbox to\vpic{\vss}
20005 \bl=1\br=1
20006 \vskip\ilg
20007 \fi\fi
20008 %
20009 % both sides
20010 %
20011 \ifnum\na>0 \ifnum\nb>0
20012 \loop\advance\nb -1
20013 \advance\na -1
20014 \if@RTL%
20015 \setbox\bslice=\vsplit\holder to\baselineskip
20016 \prune\bslice\rtside
20017 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20018 to\rtside{\box\bslice\hfil}}
20019 \setbox\aslice=\vsplit\holder to\baselineskip
20020 \prune\aslice\lftside
20021 \setbox\waslice=\vbox{\unvbox\waslice\hbox

```



```

20022 to\lftside{\box\aslice\hfil}}
20023 \else%
20024 \setbox\aslice=\vsplit\holder to\baselineskip
20025 \prune\aslice\lftside
20026 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20027 to\lftside{\box\aslice\hfil}}
20028 \setbox\bslice=\vsplit\holder to\baselineskip
20029 \prune\bslice\rtside
20030 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20031 to\rtside{\box\bslice\hfil}}
20032 \fi%
20033 \ifnum\nb>0\repeat
20034 \fi\fi
20035 %
20036 % only text on the left side
20037 %
20038 \ifnum\na>0
20039   \loop\advance\na -1
20040   \setbox\aslice=\vsplit\holder to\baselineskip
20041   \prune\aslice\lftside
20042   \setbox\waslice=\vbox{\unvbox\waslice\hbox
20043   to\lftside{\box\aslice\hfil}}
20044   \ifdim\ht\holder>0pt\repeat
20045 \fi
20046 %
20047 % only text on the right side
20048 %
20049 \ifnum\nb>0
20050   \loop\advance\nb -1
20051   \setbox\bslice=\vsplit\holder to\baselineskip
20052   \prune\bslice\rtside
20053   \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20054   to\rtside{\box\bslice\hfil}}
20055   \ifdim\ht\holder>0pt\repeat
20056 \fi
20057 %
20058 % fixing the dimensions of the window part
20059 %
20060 \ifnum\bl=0\topheight=\ht\wbslice
20061 \else\ifnum\br=0\topheight=\ht\waslice
20062   \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
20063   \else\topheight=\ht\wbslice\fi\fi\fi
20064 %
20065 % ship out the window material to the main vertical list
20066 %
20067 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
20068 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
20069 \fi\fi\fi
20070 \setbox>windowbox=\vbox{\hbox to\linewidth{%
20071 \ifnum\bl>0\box\waslice\hfill\fi%
20072 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
20073 \vfill\unvbox\picbox%
20074 \ifnum\picwd>0\vfill\fi%
20075 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%

```





```

20076 \unvbox\windowbox%
20077 \loop
20078 \setbox\bslice=\vsplit\rawtext to\baselineskip
20079 \prune\bslice\linewidth
20080 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
20081 \unvbox\wbslice
20082 \ifdim\ht\rawtext>0pt
20083 \repeat
20084 }% FINITO

```

## 132 File plain-xetex-bidi.def

```

20085 \def\TeXeTOn{\TeXeTstate=1 }
20086 \def\TeXeTOff{\TeXeTstate=0 }
20087 \TeXeTOn
20088 \def\usebox#1{\leavevmode\copy #1\relax}
20089 \def\bidir@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
20090 \let\bidir@@everypar=\everypar
20091 \newtoks\bidir@n@everypar
20092 \bidir@n@everypar\expandafter{\the\bidir@@everypar}
20093 \bidir@@everypar{\bidir@RTL@everypar\the\bidir@n@everypar}
20094 \let\everypar=\bidir@n@everypar
20095 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
20096 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
20097 \protected\def\hboxR{\hbox\bgroup
20098 \everyhbox{%
20099 \aftergroup\egroup
20100 \everyhbox{}}%
20101 \beginR
20102 \@hboxRconstructtrue
20103 \bgroup
20104 \aftergroup\endR
20105 \aftergroup\egroup
20106 }\hbox}
20107 \protected\def\hboxL{\hbox\bgroup
20108 \everyhbox{%
20109 \aftergroup\egroup
20110 \everyhbox{}}%
20111 \beginL
20112 \@hboxRconstructfalse
20113 \bgroup
20114 \aftergroup\endL
20115 \aftergroup\egroup
20116 }\hbox}
20117 \protected\def\vboxR{\vbox\bgroup
20118 \everyvbox{%
20119 \aftergroup\egroup
20120 \everyvbox{}}%
20121 \@RTLtrue
20122 \bgroup
20123 \aftergroup\egroup
20124 }\vbox}
20125 \protected\def\vboxL{\vbox\bgroup
20126 \everyvbox{%

```



```

20127 \aftergroup\egroup
20128 \everyvbox{}%
20129 \@RTLfalse
20130 \bgroup
20131 \aftergroup\egroup
20132 }\vbox}
20133 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
20134 \def\endLTR{\par}
20135 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
20136 \def\endRTL{\par}
20137 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
20138 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
20139 \let\unsetRTL=\setLTR
20140 \let\unsetLTR=\setRTL
20141 \let\LR=\LRE
20142 \let\RL=\RLE
20143 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
20144 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
20145 \let\@ensure@RL=\@ensure@RTL
20146 \let\@ensure@LR=\@ensure@LTR
20147 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
20148 \let\@ensure@maindir=\@ensure@dir
20149 \def\@RTL{RTL}
20150 \def\@LTR{LTR}
20151 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
20152 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
20153 \let\@TeX\TeX
20154 \def\TeX{\@ensure@LTR{\@TeX}}
20155 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
20156 \dimen@=\dp\ccclv \unvbox\ccclv % open up \box255
20157 \ifvoid\footins\else % footnote info is present
20158 \vskip\skip\footins
20159 \footnoterule
20160 \unvbox\footins\fi
20161 \ifrggedbottom \kern-\dimen@ \vfil \fi
20162 \ifvoid\@bidi@copyins@
20163 \else
20164 \vskip\skip\@bidi@copyins@
20165 \unvbox\@bidi@copyins@
20166 \fi
20167 }
20168 \long\def\bidi@reflect@box#1{%
20169 \leavevmode
20170 \setbox\z@\hbox{#1}%
20171 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
20172 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
20173 }
20174 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
20175 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
20176 \let\setRL=\setRTL
20177 \let\setLR=\setLTR
20178 \let\unsetRL=\setLTR
20179 \let\bidi@samed@eqno=\eqno
20180 \let\bidi@samed@leqno=\leqno

```



```

20181 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@samed@leqno \else \bidi@samed@eqno \fi}
20182 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@samed@eqno \else \bidi@samed@leqno \fi}
20183 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20184 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20185 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

### 133 File pstricks-xetex-bidi.def

```

20186 \ProvidesFile{pstricks-xetex-bidi.def}[2025/01/08 v0.7 bidi adaptations for pstricks package]
20187 \bidi@patchcmd\pspicture\beginRgroup{%
20188   \beginRgroup
20189   \ifmmode
20190     \else
20191       \@RTLfalse
20192       \beginL
20193     \fi
20194 }{}{\bidi@warningnoline{0ops! patching `string\pspicture' failed}}
20195
20196 \bidi@patchcmd\endpspicture{%
20197   \endRgroup
20198   \psset{pstricks}{shift=0}% reset value
20199 }{%
20200   \ifmmode
20201     \else
20202       \endL
20203     \fi
20204   \endRgroup
20205   \psset{pstricks}{shift=0}% reset value
20206 }{}{\bidi@warningnoline{0ops! patching `string\endpspicture' failed}}
20207
20208 \bidi@patchcmd\@@scalebox{%
20209   \special{x: bscale \pst@tempc \pst@tempd}%
20210   \hbox to \z@{\box\pst@hbox\hss}%
20211   \special{x: escale}%
20212 }{%
20213   \if@RTL
20214     \special{x: escale}%
20215   \else
20216     \special{x: bscale \pst@tempc \pst@tempd}%
20217   \fi
20218   \hbox to \z@{\box\pst@hbox\hss}%
20219   \if@RTL
20220     \special{x: bscale \pst@tempc \pst@tempd}%
20221   \else
20222     \special{x: escale}%
20223   \fi
20224 }{}{\bidi@warningnoline{0ops! patching `string\@@scalebox' failed}}
20225 \let\ps@@scalebox\@@scalebox
20226

```

### 134 File quotchap-xetex-bidi.def

```

20227 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
20228 \renewcommand{\qauthor}[1]{%

```



```

20229 \par\smallskip
20230 {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\qqquad\hbox{}\par}\bigskip}
20231 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
20232 {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
20233 {\chapnumfont
20234 \ifnum \c@secnumdepth >\m@ne%
20235 \if@mainmatter\thechapter%
20236 \fi\fi
20237 \par\nobreak}%
20238 {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi
20239 \nobreak\chapterheadendvskip}}
20240 \renewcommand*{\@iprintcites}{%
20241 \vbox to\z@{\leavevmode\copy\@quotebox\vss}
20242 \global\let\@printcites\relax}

```

## 135 File ragged2e-xetex-bidi.def

```

20243 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
20244 \renewcommand{\Centering}{%
20245 \ifx\\ \@raggedtwoe@savedcr
20246 \let\\ \@centercr
20247 \fi
20248 \let\@gnewline\@raggedtwoe@gnewline
20249 \if@RTL\rightright\else\leftskip\fi\CenteringLeftskip
20250 \@rightskip\CenteringRightskip
20251 \if@RTL\leftskip\else\rightright\fi\@rightskip
20252 \parfillskip\CenteringParfillskip
20253 \parindent\CenteringParindent
20254 \@raggedtwoe@spaceskiptrue
20255 \@raggedtwoe@everyselectfont
20256 }
20257 \renewcommand{\RaggedLeft}{%
20258 \ifx\\ \@raggedtwoe@savedcr
20259 \let\\ \@centercr
20260 \fi
20261 \let\@gnewline\@raggedtwoe@gnewline
20262 \if@RTL\rightright\else\leftskip\fi\RaggedLeftLeftskip
20263 \@rightskip\RaggedLeftRightskip
20264 \if@RTL\leftskip\else\rightright\fi\@rightskip
20265 \parfillskip\RaggedLeftParfillskip
20266 \parindent\RaggedLeftParindent
20267 \@raggedtwoe@spaceskiptrue
20268 \@raggedtwoe@everyselectfont
20269 }
20270 \renewcommand{\RaggedRight}{%
20271 \ifx\\ \@raggedtwoe@savedcr
20272 \let\\ \@centercr
20273 \fi
20274 \let\@gnewline\@raggedtwoe@gnewline
20275 \if@RTL\rightright\else\leftskip\fi\RaggedRightLeftskip
20276 \@rightskip\RaggedRightRightskip
20277 \if@RTL\leftskip\else\rightright\fi\@rightskip
20278 \parfillskip\RaggedRightParfillskip
20279 \parindent\RaggedRightParindent

```



```

20280 \@raggedtwo@spaceskiptrue
20281 \@raggedtwo@everyselectfont
20282 }
20283 \renewcommand{\justifying}{%
20284 \let\\\@raggedtwo@savedcr
20285 \let\@newline\@raggedtwo@saved@newline
20286 \ifRTL\righskip\else\leftskip\fi\z@
20287 \@rightskip\z@
20288 \ifRTL\leftskip\else\righskip\fi\@rightskip
20289 \parfillskip\JustifyingParfillskip
20290 \parindent\JustifyingParindent
20291 \@raggedtwo@spaceskipfalse
20292 \@raggedtwo@everyselectfont
20293 }
20294 \def\@raggedtwo@raggedrightboxes@opt{%
20295 \renewcommand{\@arrayparboxrestore}{%
20296 \let\if@nbreak\iffalse
20297 \let\if@noskipsec\iffalse
20298 \let\par\@par
20299 \let\-\@dischyph
20300 \let'\@acci\let`\@accii\let\=\@acciii
20301 \parskip\z@skip
20302 \everypar{}%
20303 \linewidth\hsize
20304 \@totalleftmargin\z@
20305 \ifRTL
20306 \RaggedLeft
20307 \else
20308 \RaggedRight
20309 \fi
20310 \lineskip\normallineskip
20311 \baselineskip\normalbaselineskip
20312 \sloppy}%
20313 \let\@raggedtwo@raggedrightboxes@opt\relax
20314 }
20315 \def\@raggedtwo@document@opt{%
20316 \AtBeginDocument{\@raggedtwo@abdhook}%
20317 \@raggedtwo@raggedrightboxes@opt
20318 \@raggedtwo@footmisctrue
20319 \let\@raggedtwo@document@opt\relax
20320 }
20321 \def\@raggedtwo@abdhook{%
20322 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
20323 right to left documents and '\string\RaggedRight' for left
20324 to right documents}%
20325 \ifRTL
20326 \RaggedLeft
20327 \else
20328 \RaggedRight
20329 \fi
20330 \@ifundefined{@tocrmarg}{\edef\@tocrmarg{\@tocrmarg plus 2em}}%
20331 \let\@raggedtwo@abdhook\relax
20332 }
20333 \@ifpackagewith{ragged2e}{raggedrightboxes}{%

```



```

20334 \@raggedtwoe@raggedrightboxes@opt
20335 }{}
20336 \@ifpackagewith{ragged2e}{document}{%
20337   \@raggedtwoe@document@opt
20338 }{}
20339 \let\origin@RaggedLeft=\RaggedLeft
20340 \let\origin@RaggedRight=\RaggedRight
20341 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
20342 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

## 136 File rapport1-xetex-bidi.def

```

20343 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class f
20344 \renewenvironment{theindex}{%
20345   \if@twocolumn
20346     \@restonecolfalse
20347   \else
20348     \@restonecoltrue
20349   \fi
20350   \columnseprule \z@
20351   \columnsep 35\p@
20352   \twocolumn[\@makeschapterhead{\indexname}]%
20353   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20354   \thispagestyle{plain}\parindent\z@
20355   \parskip\z@ \@plus .3\p@\relax
20356   \let\item\@idxitem
20357 }{%
20358   \if@restonecol\onecolumn\else\clearpage\fi}
20359 \renewcommand*\head@style{%
20360   \interlinepenalty \@M
20361   \hyphenpenalty=\@M \exhyphenpenalty=\@M
20362   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
20363 \if@titlepage
20364   \renewenvironment{abstract}{%
20365     \titlepage
20366     \null\vfil
20367     \section*{\SectFont\abstractname}%
20368     \noindent\ignorespaces}
20369   {\par\vfil\null\endtitlepage}
20370 \else
20371   \renewenvironment{abstract}{%
20372     \if@twocolumn
20373       \section*{\abstractname}%
20374     \else
20375       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
20376       \section*{\small\SectFont\abstractname}%
20377       \noindent\ignorespaces
20378     \fi}
20379   {\if@twocolumn\else\par\egroup\fi}
20380 \fi
20381 \renewcommand*\regtocline[3]{%
20382   \ifnum #1>\c@tocdepth
20383   \else
20384     \vskip\z@\@plus.2\p@

```



```

20385     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20386     \if@RTL\rightskip\else\leftskip\fi\unitindent
20387     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
20388     \parfillskip\z@
20389     \@tempdima\unitindent
20390     \parindent\z@
20391     \leavevmode
20392     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
20393     \hskip 1em \nobreak{\slshape #3}\par
20394     }%
20395 \fi}
20396 \if@oldtoc
20397 \renewcommand*\l@part[2]{%
20398   \ifnum \c@tocdepth >-2\relax
20399     \addpenalty{-\@highpenalty}%
20400     \addvspace{2.25em \@plus\p@}%
20401     \begingroup
20402       \setlength\@tempdima{3em}%
20403       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20404       \parfillskip -\@pnumwidth
20405       {\leavevmode
20406         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20407         \nobreak
20408         \global\@nobreaktrue
20409         \everypar{\global\@nobreakfalse\everypar{}}%
20410       \endgroup
20411     \fi}
20412 \else
20413   \renewcommand*\l@part{%
20414     \ifnum \c@tocdepth >-2\relax
20415       \addpenalty{-\@highpenalty}%
20416       \addvspace{2.25em \@plus \p@}%
20417       \@regtocline{0}%
20418     \fi}
20419 \fi
20420 \if@oldtoc
20421 \renewcommand*\l@chapter[2]{%
20422   \addpenalty{-\@highpenalty}%
20423   \vskip 1.0em \@plus\p@
20424   \setlength\@tempdima{1.5em}%
20425   \begingroup
20426     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20427     \parfillskip -\@pnumwidth
20428     \leavevmode \bfseries
20429     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20430     \hskip -\if@RTL\rightskip\else\leftskip\fi
20431     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20432     \penalty\@highpenalty
20433   \endgroup}
20434 \else
20435   \renewcommand*\l@chapter{\@regtocline{0}}
20436 \fi
20437 \renewcommand*\left@footnoterule{%
20438   \kern-3\p@

```



```

20439 \kern.5\baselineskip
20440 \hrule\@width\unitindent
20441 \kern.4\baselineskip
20442 }
20443 \renewcommand*\right@footnoterule{%
20444 \kern-3\p@
20445 \kern.5\baselineskip
20446 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20447 \kern.4\baselineskip}
20448 \renewenvironment{thebibliography}[1]
20449 {\chapter*{\bibname}%
20450 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20451 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
20452 \bidi@thebibliography@font@hook%
20453 \list{\@biblabel{\@arabic\c@enumiv}}%
20454 {\settowidth\labelwidth{\@biblabel{#1}}%
20455 \leftmargin\labelwidth
20456 \advance\leftmargin\labelsep
20457 \@openbib@code
20458 \usecounter{enumiv}%
20459 \let\p@enumiv\@empty
20460 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20461 \sloppy\clubpenalty4000\widowpenalty4000%
20462 \sfcode\.\@m}
20463 {\def\@noitemerr
20464 {\@latex@warning{Empty `thebibliography' environment}}}%
20465 \endlist}
20466 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20467 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
20468 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
20469 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20470 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
20471 \renewcommand*\theequation{%
20472 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20473 \renewcommand*\thefigure{%
20474 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
20475 \renewcommand*\thetable{%
20476 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
20477 \if@titlepage
20478 \renewcommand*\TitleFont{\rmfamily}
20479 \renewcommand*\maketitle{%
20480 \begin{titlepage}%
20481 \let\footnotesize\small
20482 \let\right@footnoterule\relax
20483 \let\left@footnoterule\relax
20484 \let\textwidth\footnoterule\relax
20485 \let \footnote \thanks
20486 \long\def\@makefnitem##1{\parindent\z@
20487 \def\labelitemi{\textendash}\@revlabeltrue
20488 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20489 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20490 \if@compatibility\setcounter{page}{0}\fi
20491 \null\vfil
20492 \vskip 60\p@

```





```

20493 \begin{center}%
20494 \TitleFont
20495 {\LARGE \def\\{\penalty -\@M}
20496 \if@allcaps
20497 \expandafter\uc@nothanks\@title\thanks\relax
20498 \else
20499 \@title
20500 \fi\par}%
20501 \vskip 3em%
20502 {\large
20503 \lineskip .75em \parindent\z@
20504 \begin{tabular}[t]{c}%
20505 \if@allcaps
20506 \expandafter\uc@authornothanks\@author\and\relax
20507 \else
20508 \@author
20509 \fi
20510 \end{tabular}\par}%
20511 \vskip 1.5em%
20512 {\large
20513 \if@allcaps
20514 \uppercase\expandafter{\@date}%
20515 \else
20516 \@date
20517 \fi\par}%
20518 \end{center}\par
20519 \@thanks
20520 \vfil\null
20521 \end{titlepage}%
20522 \setcounter{footnote}{0}%
20523 \global\let\thanks\relax
20524 \global\let\maketitle\relax
20525 \global\let\@thanks\@empty
20526 \global\let\@author\@empty
20527 \global\let\@title\@empty
20528 \global\let\@date\@empty
20529 \global\let\title\relax
20530 \global\let\author\relax
20531 \global\let\date\relax
20532 \global\let\and\relax
20533 }
20534 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20535 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20536 \futurelet\@tempa\uc@ax}
20537 \def\uc@ax{%
20538 \ifx\@tempa\relax
20539 \else
20540 \\\andname \\\expandafter\uc@authornothanks
20541 \fi}
20542 \def\uc@tx{\ifx\@tempa\relax
20543 \else \expandafter\uc@ty \fi}
20544 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20545 \else
20546 \renewcommand*\maketitle{\par

```



```

20547 \begin{group
20548   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20549   \def\@makefnmark{\rlap{%
20550     \@textsuperscript{\normalfont\@thefnmark}}}%
20551   \long\def\@makefntext{\@xmakefntext{%
20552     \@textsuperscript{\normalfont\@thefnmark}}}%
20553   \if@twocolumn
20554     \ifnum \col@number=\@one
20555       \maketitle
20556     \else
20557       \twocolumn[\maketitle]%
20558     \fi
20559   \else
20560     \newpage
20561     \global\@topnum\z@
20562     \maketitle
20563   \fi
20564   \thispagestyle{plain}\@thanks
20565 \end{group}
20566 \setcounter{footnote}{0}%
20567 \global\let\thanks\relax
20568 \global\let\maketitle\relax
20569 \global\let\@maketitle\relax
20570 \global\let\@thanks\@empty
20571 \global\let\@author\@empty
20572 \global\let\@title\@empty
20573 \global\let\@date\@empty
20574 \global\let\title\relax
20575 \global\let\author\relax
20576 \global\let\date\relax
20577 \global\let\and\relax
20578 }
20579 \def\@maketitle{%
20580   \newpage
20581   \null
20582   \vskip 2em%
20583   \begin{center}%
20584     \let \footnote \thanks
20585     {\LARGE \TitleFont \@title \par}%
20586     \vskip 1.5em%
20587     {\large \TitleFont
20588       \lineskip .5em%
20589       \begin{tabular}[t]{c}%
20590         \@author
20591       \end{tabular}\par}%
20592     \vskip 1em%
20593     {\large \TitleFont \@date}%
20594   \end{center}%
20595   \par
20596   \vskip 1.5em}
20597 \fi

```

## 137 File rapport3-xetex-bidi.def



```

20598 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class f
20599 \renewenvironment{theindex}{%
20600   \if@twocolumn
20601     \@restonecolfalse
20602   \else
20603     \@restonecoltrue
20604   \fi
20605   \columnseprule \z@
20606   \columnsep 35\p@
20607   \twocolumn[\@makeschapterhead{\indexname}]%
20608   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20609   \thispagestyle{plain}\parindent\z@
20610   \parskip\z@ \@plus .3\p@\relax
20611   \let\item\@idxitem
20612 }{%
20613   \if@restonecol\onecolumn\else\clearpage\fi}
20614 \if@titlepage
20615 \renewcommand*{\TitleFont{\rmfamily}}
20616 \renewcommand*{\maketitle{%
20617   \begin{titlepage}%
20618     \let\footnotesize\small
20619     \let\right@footnoterule\relax
20620     \let\left@footnoterule\relax
20621     \let\textwidth@footnoterule\relax
20622     \let \footnote \thanks
20623     \let \LTRfootnote \LTRthanks
20624     \let \RTLfootnote \RTLthanks
20625     \long\def\@makefntext##1{\parindent\z@
20626       \def\labelitemi{\textendash}\@revlabeltrue
20627       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20628     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20629     \if@compatibility\setcounter{page}{0}\fi
20630     \null\vfil
20631     \vskip 60\p@
20632     \begin{center}%
20633       \TitleFont
20634       {\LARGE \def\\{\penalty -\@M}
20635         \if@allcaps
20636           \expandafter\uc@nothanks\@title\thanks\relax
20637         \else
20638           \@title
20639         \fi\par}%
20640     \vskip 3em%
20641     {\large
20642       \lineskip .75em \parindent\z@
20643       \begin{tabular}[t]{c}%
20644         \if@allcaps
20645           \expandafter\uc@authornothanks\@author\and\relax
20646         \else
20647           \@author
20648         \fi
20649       \end{tabular}\par}%
20650     \vskip 1.5em%
20651     {\large

```



```

20652         \if@allcaps
20653             \uppercase\expandafter{\@date}%
20654         \else
20655             \@date
20656         \fi\par}%
20657     \end{center}\par
20658     \@thanks
20659     \vfil\null
20660 \end{titlepage}%
20661 \setcounter{footnote}{0}%
20662 \global\let\thanks\relax
20663 \global\let\LTRthanks\relax
20664 \global\let\RTLthanks\relax
20665 \global\let\maketitle\relax
20666 \global\let\@thanks\@empty
20667 \global\let\@author\@empty
20668 \global\let\@title\@empty
20669 \global\let\@date\@empty
20670 \global\let\title\relax
20671 \global\let\author\relax
20672 \global\let\date\relax
20673 \global\let\and\relax
20674 }
20675 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20676 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20677     \futurelet\@tempa\uc@ax}
20678 \def\uc@ax{%
20679     \ifx\@tempa\relax
20680     \else
20681         \\\andname \\\expandafter\uc@authornothanks
20682     \fi}
20683 \def\uc@tx{\ifx\@tempa\relax
20684     \else \expandafter\uc@ty \fi}
20685 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20686 \else
20687 \renewcommand*\maketitle{\par
20688     \begingroup
20689     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20690     \def\@makefnmark{\rlap{%
20691         \@textsuperscript{\normalfont\@thefnmark}}}%
20692     \long\def\@makefntext{\@xmakefntext{%
20693         \@textsuperscript{\normalfont\@thefnmark}}}%
20694     \if@twocolumn
20695         \ifnum \col@number=\@ne
20696             \@maketitle
20697         \else
20698             \twocolumn[\@maketitle]%
20699         \fi
20700     \else
20701         \newpage
20702         \global\@topnum\z@
20703         \@maketitle
20704     \fi
20705     \thispagestyle{plain}\@thanks

```



```

20706 \endgroup
20707 \setcounter{footnote}{0}%
20708 \global\let\thanks\relax
20709 \global\let\LTRthanks\relax
20710 \global\let\RTLthanks\relax
20711 \global\let\maketitle\relax
20712 \global\let\@maketitle\relax
20713 \global\let\@thanks\@empty
20714 \global\let\@author\@empty
20715 \global\let\@title\@empty
20716 \global\let\@date\@empty
20717 \global\let\title\relax
20718 \global\let\author\relax
20719 \global\let\date\relax
20720 \global\let\and\relax
20721 }
20722 \def\@maketitle{%
20723 \newpage
20724 \null
20725 \vskip 2em%
20726 \if@titlecentered
20727 \begin{center}%
20728 \let \footnote \thanks
20729 \let \LTRfootnote \LTRthanks
20730 \let \RTLfootnote \RTLthanks
20731 {\LARGE \TitleFont \@title \par}%
20732 \vskip 1.5em%
20733 {\large \TitleFont
20734 \lineskip .5em%
20735 \begin{tabular}[t]{c}%
20736 \@author
20737 \end{tabular}\par}%
20738 \vskip 1em%
20739 {\large \TitleFont \@date}%
20740 \end{center}%
20741 \else
20742 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
20743 {\large \TitleFont \lineskip .5em \tabcolsep\z@
20744 \def\and{%% \begin{tabular} has already started
20745 \end{tabular}\hskip 1em plus .17fil
20746 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}%% \end{tabu
20747 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\v
20748 \vskip 1em {\large \TitleFont \@date}
20749 \fi
20750 \par
20751 \vskip 1.5em}
20752 \fi
20753 \renewcommand*\@regtocline[3]{%
20754 \ifnum #1>\c@tocdepth
20755 \else
20756 \vskip\z@\@plus.2\p@
20757 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20758 \if@RTL\righskip\else\leftskip\fi\unitindent
20759 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil

```



```

20760 \parfillskip\z@
20761 \@tempdima\unitindent
20762 \parindent\z@
20763 \leavevmode
20764 \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
20765 \hskip 1em \nobreak{\slshape #3}\par
20766 }%
20767 \fi}
20768 \if@oldtoc
20769 \renewcommand*\l@part[2]{%
20770 \ifnum \c@tocdepth >-2\relax
20771 \addpenalty{-\@highpenalty}%
20772 \addvspace{2.25em \@plus\p@}%
20773 \begingroup
20774 \setlength\@tempdima{3em}%
20775 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
20776 \parfillskip -\@pnumwidth
20777 {\leavevmode
20778 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20779 \nobreak
20780 \global\@nobreaktrue
20781 \everypar{\global\@nobreakfalse\everypar{}}%
20782 \endgroup
20783 \fi}
20784 \else
20785 \renewcommand*\l@part{%
20786 \ifnum \c@tocdepth >-2\relax
20787 \addpenalty{-\@highpenalty}%
20788 \addvspace{2.25em \@plus \p@}%
20789 \@regtocline{0}%
20790 \fi}
20791 \fi
20792 \if@oldtoc
20793 \renewcommand*\l@chapter[2]{%
20794 \addpenalty{-\@highpenalty}%
20795 \vskip 1.0em \@plus\p@
20796 \setlength\@tempdima{1.5em}%
20797 \begingroup
20798 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
20799 \parfillskip -\@pnumwidth
20800 \leavevmode \bfseries
20801 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
20802 \hskip -\if@RTL\righskip\else\leftskip\fi
20803 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20804 \penalty\@highpenalty
20805 \endgroup}
20806 \else
20807 \renewcommand*\l@chapter{\@regtocline{0}}
20808 \fi
20809 \renewcommand*\head@style{%
20810 \interlinepenalty \@M
20811 \hyphenpenalty=\@M \exhyphenpenalty=\@M
20812 \if@RTL\leftskip\else\righskip\fi=0cm plus .7\hsize\relax}
20813 \if@titlepage

```



```

20814 \renewenvironment{abstract}{%
20815     \titlepage
20816     \null\vfil
20817     \section*{\SectFont\abstractname}%
20818     \noindent\ignorespaces}
20819 {\par\vfil\null\endtitlepage}
20820 \else
20821 \renewenvironment{abstract}{%
20822     \if@twocolumn
20823     \section*{\abstractname}%
20824     \else
20825     \bgroup\ifRTL\leftskip\else\rightskip\fi=\unitindent
20826     \section*{\small\SectFont\abstractname}%
20827     \noindent\ignorespaces
20828     \fi}
20829 {\if@twocolumn\else\par\egroup\fi}
20830 \fi
20831 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20832 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
20833 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
20834 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20835 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
20836 \renewcommand*\thefigure{%
20837     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
20838 \renewcommand*\thetable{%
20839     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
20840 \renewcommand*\theequation{%
20841     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20842 \renewenvironment{thebibliography}[1]
20843 {\chapter*{\bibname}%
20844     \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20845     \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
20846     \bidi@thebibliography@font@hook%
20847     \list{\@biblabel{\@arabic\c@enumiv}}%
20848         {\settowidth\labelwidth{\@biblabel{#1}}%
20849         \leftmargin\labelwidth
20850         \advance\leftmargin\labelsep
20851         \@openbib@code
20852         \usecounter{enumiv}%
20853         \let\p@enumiv\@empty
20854         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20855     \sloppy\clubpenalty4000\widowpenalty4000%
20856     \sfcode\.\@m}
20857 {\def\@noitemerr
20858     {\@latex@warning{Empty `thebibliography' environment}}}%
20859     \endlist}
20860 \renewcommand*\left@footnoterule{%
20861     \kern-3\p@
20862     \kern.5\baselineskip
20863     \hrule\@width\unitindent
20864     \kern.4\baselineskip
20865 }
20866 \renewcommand*\right@footnoterule{%
20867     \kern-3\p@

```



```

20868 \kern.5\baselineskip
20869 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20870 \kern.4\baselineskip}
20871 \renewcommand*\head@style{%
20872     \interlinepenalty \@M
20873     \hyphenpenalty=\@M \exhyphenpenalty=\@M
20874     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

## 138 File refrep-xetex-bidi.def

```

20875 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for X
20876 \if@titlepage
20877 \renewcommand\maketitle{\begin{titlepage}%
20878 \let\footnotesize\small
20879 \let\right@footnoterule\relax
20880 \let\left@footnoterule\relax
20881 \let\textwidth@footnoterule\relax
20882 \let\footnote\thanks
20883 \let\LTRfootnote\LTRthanks
20884 \let\RTLfootnote\RTLthanks
20885 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20886 \def\@makefnmark%
20887     {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20888 \long\def\@makefntext##1{%
20889     \setpar{\@par
20890         \@tempdima = \hsize
20891         \advance\@tempdima -1em
20892         \parshape \@ne 1em \@tempdima}%
20893     \par\parindent 1em \noindent
20894     \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
20895 \null\vfil
20896 \vskip 60\p@
20897 \begin{center}%
20898     {\LARGE \@title \par}%
20899     \vskip 3em%
20900     {\large
20901         \lineskip .75em%
20902         \begin{tabular}[t]{c}%
20903             \@author
20904         \end{tabular}\par}%
20905     \vskip 1.5em%
20906     {\large \@date \par}% % Set date in \large size.
20907 \end{center}\par
20908 \@thanks
20909 \vfil\null
20910 \end{titlepage}%
20911 \setcounter{footnote}{0}%
20912 \global\let\thanks\relax
20913 \global\let\LTRthanks\relax
20914 \global\let\RTLthanks\relax
20915 \global\let\maketitle\relax
20916 \global\let\@thanks\@empty
20917 \global\let\@author\@empty
20918 \global\let\@date\@empty

```





```

20919 \global\let\@title\@empty
20920 \global\let\title\relax
20921 \global\let\author\relax
20922 \global\let\date\relax
20923 \global\let\and\relax
20924 }
20925 \else
20926 \renewcommand\maketitle{\par
20927 \beginingroup
20928 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20929 \def\@makefnmark%
20930 {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20931 \long\def\@makefntext##1{%
20932 \setpar{\@par
20933 \tempdima = \hspace
20934 \advance\tempdima -1em
20935 \parshape \@ne 1em \tempdima}%
20936 \par\parindent 1em \noindent
20937 \hb@xt@z{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
20938 \if@twocolumn
20939 \ifnum \col@number=\@ne
20940 \maketitle
20941 \else
20942 \twocolumn[\maketitle]%
20943 \fi
20944 \else
20945 \newpage
20946 \global\@topnum\z@ % Prevents figures from going at top of page.
20947 \maketitle
20948 \fi
20949 \thispagestyle{empty}\@thanks
20950 \endgroup
20951 \setcounter{footnote}{0}%
20952 \global\let\thanks\relax
20953 \global\let\LTRthanks\relax
20954 \global\let\RTLthanks\relax
20955 \global\let\maketitle\relax
20956 \global\let\@maketitle\relax
20957 \global\let\@thanks\@empty
20958 \global\let\@author\@empty
20959 \global\let\@date\@empty
20960 \global\let\@title\@empty
20961 \global\let\title\relax
20962 \global\let\author\relax
20963 \global\let\date\relax
20964 \global\let\and\relax
20965 }
20966 \def\@maketitle{%
20967 \newpage
20968 \null
20969 \longthickrule\vskip1.5em%
20970 \let \footnote \thanks
20971 \let \LTRfootnote \LTRthanks
20972 \let \RTLfootnote \RTLthanks

```



```

20973     {\secshape \parskip\z@ \parindent\z@
20974     \Large\bfseries \@title \par}%
20975     \vskip1.5em\longthickrule\vskip1.5em%
20976     {\normalsize
20977     \lineskip .5em%
20978     \begin{flushright}%
20979     {\slshape\@author\par}
20980     \vskip 1em%
20981     {\@date}%
20982     \end{flushright}\par}%
20983     \vskip 1.5em}
20984 \fi
20985 \renewcommand*\l@part[2]{%
20986   \ifnum \c@tocdepth >-2\relax
20987     \addpenalty{-\@highpenalty}%
20988     \addvspace{2.25em \@plus\p}%
20989     \begingroup
20990       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20991       \parfillskip -\@pnumwidth
20992       {\leavevmode
20993       \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
20994       \nobreak
20995       \global\@nobreaktrue
20996       \everypar{\global\@nobreakfalse\everypar{}}%
20997     \endgroup
20998   \fi}
21000 \renewcommand*\l@chapter[2]{%
21001   \ifnum \c@tocdepth >\m@ne
21002     \addpenalty{-\@highpenalty}%
21003     \vskip 1.0em \@plus\p@
21004     \setlength\@tempdima{1.5em}%
21005     \begingroup
21006       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21007       \parfillskip -\@pnumwidth
21008       \leavevmode \bfseries
21009       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21010       \hskip -\if@RTL\rightskip\else\leftskip\fi
21011       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21012       \penalty\@highpenalty
21013     \endgroup
21014     \fi}
21015 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
21016 \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
21017 \hyphenpenalty=2000}
21018 \renewcommand\left@footnoterule{%
21019   \kern-3\p@
21020   \hrule\@width.4\columnwidth
21021   \kern 2.6\p@}
21022 \renewcommand\right@footnoterule{%
21023   \kern-3\p@
21024   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21025   \kern2.6\p@}
21026 \renewcommand\theequation
21027 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}

```



```

21027 \renewcommand\thefigure
21028     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21029 \renewcommand\thetable%
21030     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21031 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
21032 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21033 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
21034 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21035 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21036 \renewenvironment{thebibliography}[1]
21037     {\chapter*{\bibname
21038         \@mkboth{\bibname}{\bibname}}%
21039         \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
21040         \bidi@thebibliography@font@hook%
21041         \list{\@biblabel{\@arabic\c@enumiv}}%
21042             {\settowidth\labelwidth{\@biblabel{#1}}%
21043             \leftmargin\labelwidth
21044             \advance\leftmargin\labelsep
21045             \@openbib@code
21046             \usecounter{enumiv}%
21047             \let\p@enumiv\@empty
21048             \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21049             \sloppy
21050             \clubpenalty4000
21051             \@clubpenalty \clubpenalty
21052             \widowpenalty4000%
21053             \sfcode\@.=\@m}
21054 \def\@noitemerr
21055     {\@latex@warning{Empty `thebibliography' environment}}%
21056 \endlist}

```

## 139 File report-xetex-bidi.def

```

21057 \ProvidesFile{report-xetex-bidi.def}[2025/09/04 v1.0 bidi adaptations for standard report cl
21058 \renewenvironment{theindex}
21059     {\if@twocolumn
21060         \@restonecolfalse
21061         \else
21062             \@restonecoltrue
21063         \fi
21064         \columnseprule \z@
21065         \columnsep 35\p@
21066         \twocolumn[\@makeschapterhead{\indexname}]%
21067         \@mkboth{\MakeUppercase\indexname}%
21068             {\MakeUppercase\indexname}%
21069         \thispagestyle{plain}\parindent\z@
21070         \parskip\z@ \@plus .3\p@\relax
21071         \let\item\@idxitem}
21072     {\if@restonecol\onecolumn\else\clearpage\fi}
21073 \if@titlepage
21074 \renewcommand\maketitle{\begin{titlepage}%
21075 \let\footnotesize\small
21076 \let\right@footnoterule\relax
21077 \let\left@footnoterule\relax

```



```

21078 \let\textwidth@footnoterule\relax
21079 \let \footnote \thanks
21080 \let \LTRfootnote \LTRthanks
21081 \let \RTLfootnote \RTLthanks
21082 \null\vfil
21083 \vskip 60\p@
21084 \begin{center}%
21085   {\LARGE \@title \par}%
21086   \vskip 3em%
21087   {\large
21088     \lineskip .75em%
21089     \begin{tabular}[t]{c}%
21090       \@author
21091     \end{tabular}\par}%
21092   \vskip 1.5em%
21093   {\large \@date \par}%           % Set date in \large size.
21094 \end{center}\par
21095 \@thanks
21096 \vfil\null
21097 \end{titlepage}%
21098 \setcounter{footnote}{0}%
21099 \global\let\thanks\relax
21100 \global\let\LTRthanks\relax
21101 \global\let\RTLthanks\relax
21102 \global\let\maketitle\relax
21103 \global\let\@thanks\@empty
21104 \global\let\@author\@empty
21105 \global\let\@date\@empty
21106 \global\let\@title\@empty
21107 \global\let\title\relax
21108 \global\let\author\relax
21109 \global\let\date\relax
21110 \global\let\and\relax
21111 }
21112 \else
21113 \renewcommand\maketitle{\par
21114   \begin{group}
21115     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
21116     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
21117     \long\def\@makefntext#1{\parindent 1em\noindent
21118       \hb@xt@1.8em{%
21119         \hss\@textsuperscript{\normalfont\@thefnmark}}\#1}%
21120     \if@twocolumn
21121       \ifnum \col@number=\@ne
21122         \@maketitle
21123       \else
21124         \twocolumn[\@maketitle]%
21125       \fi
21126     \else
21127       \newpage
21128       \global\@topnum\z@   % Prevents figures from going at top of page.
21129       \@maketitle
21130     \fi
21131     \thispagestyle{plain}\@thanks

```



```

21132 \endgroup
21133 \setcounter{footnote}{0}%
21134 \global\let\thanks\relax
21135 \global\let\LTRthanks\relax
21136 \global\let\RTLthanks\relax
21137 \global\let\maketitle\relax
21138 \global\let\@maketitle\relax
21139 \global\let\@thanks\@empty
21140 \global\let\@author\@empty
21141 \global\let\@date\@empty
21142 \global\let\@title\@empty
21143 \global\let\title\relax
21144 \global\let\author\relax
21145 \global\let\date\relax
21146 \global\let\and\relax
21147 }
21148 \def\@maketitle{%
21149 \newpage
21150 \null
21151 \vskip 2em%
21152 \begin{center}%
21153 \let \footnote \thanks
21154 \let \LTRfootnote \LTRthanks
21155 \let \RTLfootnote \RTLthanks
21156 {\LARGE \@title \par}%
21157 \vskip 1.5em%
21158 {\large
21159 \lineskip .5em%
21160 \begin{tabular}[t]{c}%
21161 \@author
21162 \end{tabular}\par}%
21163 \vskip 1em%
21164 {\large \@date}%
21165 \end{center}%
21166 \par
21167 \vskip 1.5em}
21168 \fi
21169 \IfPackageLoadedF{tocloft}{%
21170 \renewcommand*\l@part[2]{%
21171 \ifnum \c@tocdepth >-2\relax
21172 \addpenalty{-\@highpenalty}%
21173 \addvspace{2.25em \@plus\p}%
21174 \setlength\@tempdima{3em}%
21175 \begin{group
21176 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21177 \parfillskip -\@pnumwidth
21178 {\leavevmode
21179 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
21180 \nobreak
21181 \global\@nobreaktrue
21182 \everypar{\global\@nobreakfalse\everypar{}}%
21183 \end{group
21184 \fi}
21185 \renewcommand*\l@chapter[2]{%

```



```

21186 \ifnum \c@tocdepth >\m@ne
21187 \addpenalty{-\@highpenalty}%
21188 \vskip 1.0em \@plus\p@
21189 \setlength\@tempdima{1.5em}%
21190 \begingroup
21191 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21192 \parfillskip -\@pnumwidth
21193 \leavevmode \bfseries
21194 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21195 \hskip -\if@RTL\rightskip\else\leftskip\fi
21196 #1\nobreak\hfil \nobreak\hbext@\@pnumwidth{\hss #2}\par
21197 \penalty\@highpenalty
21198 \endgroup
21199 \fi}
21200 }
21201 \renewcommand\left@footnoterule{%
21202 \kern-3\p@
21203 \hrule\@width.4\columnwidth
21204 \kern2.6\p@}
21205 \renewcommand\right@footnoterule{%
21206 \kern-3\p@
21207 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21208 \kern2.6\p@}
21209 \renewcommand\theequation
21210 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21211 \renewcommand \thefigure
21212 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21213 \renewcommand \thetable
21214 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21215 \renewcommand \thechapter {\@arabic\c@chapter}
21216 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
21217 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21218 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
21219 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21220 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21221 \def\@makechapterhead#1{%
21222 \vspace*{50\p@}%
21223 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
21224 \ifnum \c@secnumdepth >\m@ne
21225 \huge\bfseries \@chapapp\space \thechapter
21226 \par\nobreak
21227 \vskip 20\p@
21228 \fi
21229 \interlinepenalty\@M
21230 \Huge \bfseries #1\par\nobreak
21231 \vskip 40\p@
21232 }}
21233 \def\@makeschapterhead#1{%
21234 \vspace*{50\p@}%
21235 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
21236 \normalfont
21237 \interlinepenalty\@M
21238 \Huge \bfseries #1\par\nobreak
21239 \vskip 40\p@

```



```

21240 }}
21241 \IfPackageLoadedF{natbib}{%
21242 \renewenvironment{thebibliography}[1]
21243 {\chapter*{\bibname}%
21244 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
21245 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
21246 \bidi@thebibliography@font@hook%
21247 \list{\@biblabel{\@arabic\c@enumiv}}%
21248 {\settowidth\labelwidth{\@biblabel{#1}}%
21249 \leftmargin\labelwidth
21250 \advance\leftmargin\labelsep
21251 \@openbib@code
21252 \usecounter{enumiv}%
21253 \let\p@enumiv\@empty
21254 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21255 \sloppy
21256 \clubpenalty4000
21257 \@clubpenalty \clubpenalty
21258 \widowpenalty4000%
21259 \sfcode`. \@m}
21260 {\def\@noitemerr
21261 {\@latex@warning{Empty `thebibliography' environment}}}%
21262 \endlist}
21263 }

```

## 140 File rotating-xetex-bidi.def

```

21264 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
21265 \def\end@rotfloat{%
21266 \end{minipage}\end{lrbox}%
21267 \stepcounter{r@tfl@t}%
21268 \rot@label{RF\ther@tfl@t}%
21269 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21270 \edef\@tempa{Adding sideways \c@type\space on page \R@@page\space}
21271 \rot@mess@toks\expandafter{\@tempa}
21272 \wd\rot@float@box\z@
21273 \ht\rot@float@box\z@
21274 \dp\rot@float@box\z@
21275 \vboxL to \textheight{%
21276 \setkeys{Grot}{units=360}%
21277 \if@rot@twoside
21278 \else
21279 \let\R@@page\rot@LR
21280 \fi
21281 \ifthenelse{\isodd{\R@@page}}{%
21282 \if@rot@twoside
21283 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
21284 \fi
21285 \vfill
21286 @@line{%
21287 \hskip\rotFPtop
21288 \rotatebox{90}{\box\rot@float@box}%
21289 \hskip\rotFPbot
21290 }%

```



```

21291 }{%
21292   \if@rot@twoside
21293     \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}}%
21294   \fi
21295   \@@line{%
21296     \hskip\rotFPbot
21297     \rotatebox{-90}{\box\rot@float@box}%
21298     \hskip\rotFPtop
21299   }%
21300   \vfill
21301 }%
21302 \rot@message{\the\rot@mess@toks}
21303 }%
21304 \end@float
21305 }
21306 \let\endsidewaysfigure\end@rotfloat
21307 \let\endsidewaysstable\end@rotfloat
21308 \def\end@rotdblfloat{%
21309   \end{minipage}\end{lrbox}%
21310   \stepcounter{r@tfl@t}%
21311   \rot@label{RF\ther@tfl@t}%
21312   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21313   \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
21314   \rot@mess@toks\expandafter{\@tempa}
21315   \@tempdima\ht\rot@float@box
21316   \advance\@tempdima by \dp\rot@float@box
21317   \wd\rot@float@box\z@
21318   \ht\rot@float@box\z@
21319   \dp\rot@float@box\z@
21320   \vboxL to \textheight{%
21321     \setkeys{Grot}{units=360}%
21322     \if@rot@twoside
21323     \else
21324       \let\R@@page\rot@LR
21325     \fi
21326     \ifthenelse{\isodd{\R@@page}}{%
21327       \ifrot@messages
21328         \if@rot@twoside
21329         \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}}%
21330   \fi
21331   \fi
21332   \vfill
21333   \@@line{%
21334     \hskip\rotFPtop
21335     \rotatebox{90}{\box\rot@float@box}%
21336     \hskip\rotFPbot
21337   }%
21338 }{%
21339   \ifrot@messages
21340     \if@rot@twoside
21341     \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}}%
21342 \fi
21343 \fi%
21344 \@@line{%

```





```

21345         \hskip\rotFPbot
21346         \rotatebox{-90}{\box\rot@float@box}%
21347         \hskip\rotFPtop
21348     }%
21349     \vfill
21350 }%
21351 \rot@message{\the\rot@mess@toks}%
21352 }%
21353 \end@dblfloat
21354 }
21355 \def\turn#1{%
21356     \Grot@setangle{#1}%
21357     \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21358 \def\endturn{%
21359     \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21360     \unskip\color@endbox
21361     \Grot@x\z@
21362     \Grot@y\z@
21363     \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21364 }
21365 \def\rotate#1{%
21366     \Grot@setangle{#1}%
21367     \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21368 \def\endrotate{%
21369     \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21370     \unskip\color@endbox
21371     \Grot@x\z@
21372     \Grot@y\z@
21373     \wd0\z@\dp0\z@\ht0\z@
21374     \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21375 }
21376 \def\turnbox#1#2{%
21377     \Grot@setangle{#1}%
21378     \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
21379     \Grot@x\z@\Grot@y\z@
21380     \wd0\z@\dp0\z@\ht0\z@
21381     \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21382 }
21383 \def\sideways{%
21384     \Grot@setangle{90}%
21385     \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21386 \def\endsideways{%
21387     \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21388     \unskip\color@endbox
21389     \Grot@x\z@
21390     \Grot@y\z@
21391     \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21392 }

```

## 141 File `scrartcl-xetex-bidi.def`

```

21393 \ProvidesFile{scrartcl-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrartcl class f
21394 \newcommand{\scr@saved@LTRfootnotetext}{}
21395 \newcommand{\scr@saved@RTLfootnotetext}{}

```



```

21396 \let\scr@saved@footnotetext\@footnotetext
21397 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21398 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21399 \renewcommand{\@footnotetext}[1]{%
21400   \scr@saved@footnotetext{#1}%
21401   \csname FN@mfb@prepare\endcsname
21402 }
21403 \renewcommand{\@LTRfootnotetext}[1]{%
21404   \scr@saved@LTRfootnotetext{#1}%
21405   \csname FN@mfb@prepare\endcsname
21406 }
21407 \renewcommand{\@RTLfootnotetext}[1]{%
21408   \scr@saved@RTLfootnotetext{#1}%
21409   \csname FN@mfb@prepare\endcsname
21410 }
21411 \renewcommand\deffootnote[4][1]{%
21412   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21413     \long\def\@makefnmark##1{%
21414       \ExecuteDoHook{footnote/text/begin}%
21415       \raggedfootnote
21416       \if@RTL
21417         \rightskip
21418       \else
21419         \leftskip
21420       \fi
21421       #2
21422       \l@addto@macro\@trivlist{%
21423         \ifnum\@listdepth=\@ne
21424           \if@RTL
21425             \advance\rightmargin #2\relax
21426           \else
21427             \advance\leftmargin #2\relax
21428           \fi
21429         \fi
21430       }%
21431       \parindent #3\noindent
21432       \IfArgIsEmpty{#1}{-}{%
21433         \hskip \dimexpr #1-#2\relax
21434       }%
21435       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21436       \ExecuteDoHook{footnote/text/end}%
21437     }%
21438   \else
21439     \ClassInfo{\KOMAClassName}{%
21440       Using old \string\@makefnmark\space due to compatibility
21441       level\MessageBreak
21442       less than 3.22}%
21443     \long\def\@makefnmark##1{%
21444       \setlength{\@tempdimc}{#3}%
21445       \def\@tempa{#1}\ifx\@tempa\@empty
21446         \@setpar{\@@par
21447           \@tempdima = \hsize
21448           \addtolength{\@tempdima}{-#2}%
21449           \if@RTL

```



```

21450         \parshape \@ne \z@ \@tempdima
21451     \else
21452         \parshape \@ne #2 \@tempdima
21453     \fi}%
21454 \else
21455     \addtolength{\@tempdimc}{#2}%
21456     \addtolength{\@tempdimc}{-#1}%
21457     \@setpar{\@par
21458         \@tempdima = \hsize
21459         \addtolength{\@tempdima}{-#1}%
21460         \@tempdimb = \hsize
21461         \addtolength{\@tempdimb}{-#2}%
21462         \if@RTL
21463             \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21464         \else
21465             \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21466         \fi
21467     }%
21468 \fi
21469 \par
21470 \parindent\@tempdimc\noindent
21471 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21472 }%
21473 \fi
21474 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21475 }
21476 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21477 \renewcommand*\left@footnoterule{%
21478     \normalsize\ftn@rule@test@values
21479     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21480     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21481     {\usekomafont{footnoterule}{%
21482         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21483     \kern 2.6\p@}
21484 \renewcommand*\right@footnoterule{%
21485     \normalsize\ftn@rule@test@values
21486     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21487     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21488     {\usekomafont{footnoterule}{%
21489         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
21490         \kern 2.6\p@}
21491 \renewcommand*\maketitle[1][1]{%
21492     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21493     \else
21494         \def\and{%
21495             \end{tabular}%
21496             \hskip 1em \@plus.17fil%
21497             \begin{tabular}[t]{c}%
21498         }%
21499     \fi
21500     \if@titlepage
21501         \begin{titlepage}
21502         \setcounter{page}{%
21503             #1%

```



```

21504 }%
21505 \if@titlepageiscoverpage
21506   \edef\titlepage@restore{%
21507     \noexpand\endgroup
21508     \noexpand\global\noexpand\@colht\the\@colht
21509     \noexpand\global\noexpand\@colroom\the\@colroom
21510     \noexpand\global\vsizethe\vsizethe
21511     \noexpand\global\noexpand\@titlepageiscoverpagefalse
21512     \noexpand\let\noexpand\titlepage@restore\noexpand\relax
21513   }%
21514   \beginngroup
21515   \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21516   \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21517   \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21518   \textwidth=\dimexpr
21519   \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21520   \textheight=\dimexpr
21521   \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21522   \headheight=0pt
21523   \headsep=0pt
21524   \footskip=\baselineskip
21525   \@colht=\textheight
21526   \@colroom=\textheight
21527   \vsizethe\textheight
21528   \columnwidth=\textwidth
21529   \hsize=\columnwidth
21530   \linewidth=\hsize
21531 \else
21532   \let\titlepage@restore\relax
21533 \fi
21534 \let\footnotesize\small
21535 \let\right@footnoterule\relax
21536 \let\left@footnoterule\relax
21537 \let\textwidth@footnoterule\relax
21538 \let\footnote\thanks
21539 \let\LTRfootnote\LTRthanks
21540 \let\RTLfootnote\RTLthanks
21541 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21542 \let\@oldmakefnmark\@makefnmark
21543 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
21544 \ifx\@extratitle\@empty
21545   \ifx\@frontispiece\@empty
21546   \else
21547     \if@twoside\mbox{}\next@tpage\fi
21548     \noindent\@frontispiece\next@tdpage
21549   \fi
21550 \else
21551   \noindent\@extratitle
21552   \ifx\@frontispiece\@empty
21553   \else
21554     \next@tpage
21555     \noindent\@frontispiece
21556   \fi
21557   \next@tdpage

```



```

21558 \fi
21559 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@update relative
21560 \ifx\@titlehead\@empty \else
21561 \begin{minipage}[t]{\textwidth}%
21562 \usekomafont{titlehead}{\@titlehead\par}%
21563 \end{minipage}\par
21564 \fi
21565 \null\vfill
21566 \begin{center}
21567 \ifx\@subject\@empty \else
21568 {\usekomafont{subject}{\@subject\par}}%
21569 \vskip 3em
21570 \fi
21571 {\usekomafont{title}{\huge \@title\par}}%
21572 \vskip 1em
21573 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21574 \vskip 2em
21575 {%
21576 \usekomafont{author}{%
21577 \lineskip 0.75em
21578 \begin{tabular}[t]{c}
21579 \@author
21580 \end{tabular}\par
21581 }%
21582 }%
21583 \vskip 1.5em
21584 {\usekomafont{date}{\@date \par}}%
21585 \vskip \z@ \@plus3fill
21586 {\usekomafont{publishers}{\@publishers \par}}%
21587 \vskip 3em
21588 \end{center}\par
21589 \@thanks\global\let\@thanks\@empty
21590 \vfill\null
21591 \if@twoside
21592 \@tempwtrue
21593 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
21594 \else
21595 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21596 \@tempwfalse
21597 \fi\fi
21598 \fi
21599 \if@tempswa
21600 \next@tpage
21601 \begin{minipage}[t]{\textwidth}
21602 \@uppertitleback
21603 \end{minipage}\par
21604 \vfill
21605 \begin{minipage}[b]{\textwidth}
21606 \@lowertitleback
21607 \end{minipage}\par
21608 \@thanks\global\let\@thanks\@empty
21609 \fi
21610 \else
21611 \ifx\@uppertitleback\@empty\else

```



```

21612         \ClassWarning{\KOMAClassName}{%
21613             non empty \string\uppertitleback\space ignored
21614             by \string\maketitle\MessageBreak
21615             in `twoside=false' mode%
21616         }%
21617     \fi
21618     \ifx\@lowertitleback\@empty\else
21619         \ClassWarning{\KOMAClassName}{%
21620             non empty \string\lowertitleback\space ignored
21621             by \string\maketitle\MessageBreak
21622             in `twoside=false' mode%
21623         }%
21624     \fi
21625 \fi
21626 \ifx\@dedication\@empty
21627 \else
21628     \next@tdpage\null\vfill
21629     {\centering\usekomafont{dedication}{\@dedication \par}}%
21630     \vskip \z@ \@plus3fill
21631     \@thanks\global\let\@thanks\@empty
21632     \cleardoubleemptypage
21633 \fi
21634 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
21635 \end{titlepage}
21636 \else
21637     \par
21638     \@tempcnta=%
21639     #1%
21640     \relax\ifnum\@tempcnta=1\else
21641         \ClassWarning{\KOMAClassName}{%
21642             Optional argument of \string\maketitle\space ignored\MessageBreak
21643             in `titlepage=false' mode%
21644         }%
21645     \fi
21646     \ifx\@uppertitleback\@empty\else
21647         \ClassWarning{\KOMAClassName}{%
21648             non empty \string\uppertitleback\space ignored
21649             by \string\maketitle\MessageBreak
21650             in `titlepage=false' mode%
21651         }%
21652     \fi
21653     \ifx\@lowertitleback\@empty\else
21654         \ClassWarning{\KOMAClassName}{%
21655             non empty \string\lowertitleback\space ignored
21656             by \string\maketitle\MessageBreak
21657             in `titlepage=false' mode%
21658         }%
21659     \fi
21660     \begingroup
21661         \let\titlepage@restore\relax
21662         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21663         \let\@oldmakefnmark\@makefnmark
21664         \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
21665         \next@tdpage

```



```

21666 \if@twocolumn
21667 \ifnum \col@number=\@ne
21668 \ifx\@extratitle\@empty
21669 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21670 \else
21671 \@makeextratitle
21672 \fi
21673 \ifx\@frontispiece\@empty
21674 \ifx\@extratitle\@empty\else\next@tdpage\fi
21675 \else
21676 \next@tpage
21677 \@makefrontispiece
21678 \next@tdpage
21679 \fi
21680 \@maketitle
21681 \else
21682 \ifx\@extratitle\@empty
21683 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21684 \else
21685 \twocolumn[\@makeextratitle]%
21686 \fi
21687 \ifx\@frontispiece\@empty
21688 \ifx\@extratitle\@empty\else\next@tdpage\fi
21689 \else
21690 \next@tpage
21691 \twocolumn[\@makefrontispiece]%
21692 \next@tdpage
21693 \fi
21694 \twocolumn[\@maketitle]%
21695 \fi
21696 \else
21697 \ifx\@extratitle\@empty
21698 \ifx\@frontispiece\@empty\else \mbox{}\fi
21699 \else
21700 \@makeextratitle
21701 \fi
21702 \ifx\@frontispiece\@empty
21703 \ifx\@extratitle\@empty\else\next@tdpage\fi
21704 \else
21705 \next@tpage
21706 \@makefrontispiece
21707 \next@tdpage
21708 \fi
21709 \@maketitle
21710 \fi
21711 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21712 \@thanks\global\let\@thanks\@empty
21713 \endgroup
21714 \fi
21715 \setcounter{footnote}{0}%
21716 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21717 \let\thanks\relax
21718 \let\LTRthanks\relax
21719 \let\RTLthanks\relax

```



```

21720 \let\maketitle\relax
21721 \let\@maketitle\relax
21722 \global\let\@thanks\@empty
21723 \global\let\@author\@empty
21724 \global\let\@date\@empty
21725 \global\let\@title\@empty
21726 \global\let\@subtitle\@empty
21727 \global\let\@extratitle\@empty
21728 \global\let\@frontispiece\@empty
21729 \global\let\@titlehead\@empty
21730 \global\let\@subject\@empty
21731 \global\let\@publishers\@empty
21732 \global\let\@uppertitleback\@empty
21733 \global\let\@lowertitleback\@empty
21734 \global\let\@dedication\@empty
21735 \global\let\author\relax
21736 \global\let\title\relax
21737 \global\let\extratitle\relax
21738 \global\let\titlehead\relax
21739 \global\let\subject\relax
21740 \global\let\publishers\relax
21741 \global\let\uppertitleback\relax
21742 \global\let\lowertitleback\relax
21743 \global\let\dedication\relax
21744 \global\let\date\relax
21745 \fi
21746 \global\let\and\relax
21747 }%
21748 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21749 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
21750 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21751 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
21752 \renewcommand*\thesubsubsection{,%
21753 \thesubsection\@SepMark\@arabic\c@subsubsection
21754 }
21755 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21756 \renewcommand*\thesubparagraph{,%
21757 \theparagraph\@SepMark\@arabic\c@subparagraph
21758 }
21759 \renewenvironment{thebibliography}[1]{%
21760 \if@bib@break@
21761 \bib@beginhook
21762 \else
21763 \bib@heading
21764 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21765 \noindent\bibpreamble\par\nobreak
21766 \fi\fi
21767 \bib@beginhook
21768 \bib@before@hook
21769 \fi
21770 \renewcommand*\BreakBibliography}[1]{%
21771 \@bib@break
21772 \end{thebibliography}%
21773 \begingroup ##1\endgroup

```





```

21774 \begin{thebibliography}{#1}
21775 }%
21776 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21777 \bidi@thebibliography@font@hook%
21778 \list{%
21779 \biblabel{\@arabic\c@enumiv}%
21780 }{%
21781 \settowidth\labelwidth{\biblabel{#1}}%
21782 \leftmargin\labelwidth
21783 \advance\leftmargin\labelsep
21784 \@openbib@code
21785 \if@bib@break@
21786 \edef\@tempa{%
21787 \noexpand\usecounter{enumiv}%
21788 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21789 }\@tempa
21790 \no@bib@break
21791 \else
21792 \usecounter{enumiv}%
21793 \fi
21794 \let\p@enumiv\@empty
21795 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21796 }%
21797 \sloppy\clubpenalty4000 \widowpenalty4000
21798 \sfcode`\.=\@m
21799 }{%
21800 \if@bib@break@
21801 \def\@noitemerr{%
21802 \@latex@warning{%
21803 \string\BreakBibliography\space at begin of `thebibliography'
21804 environment\MessageBreak
21805 or following \string\BreakBibliography}%
21806 }%
21807 \else
21808 \def\@noitemerr{%
21809 \@latex@warning{%
21810 Empty `thebibliography' environment or
21811 \string\BreakBibliography\MessageBreak
21812 before end of `thebibliography' environment}%
21813 }%
21814 \fi
21815 \endlist
21816 \if@bib@break@
21817 \else
21818 \bib@after@hook
21819 \let\bib@before@hook\@empty
21820 \let\bib@after@hook\@empty
21821 \fi
21822 \bib@endhook
21823 }
21824 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
21825 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
21826 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
21827 \renewcommand\marginline[1]{%

```



```

21828 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21829 }
21830 \renewcommand{\@@makecaption}[3]{%
21831   \cap@margin
21832   \begingroup
21833     \ifonelinecaptions
21834       \def\stepcounter##1{\advance\value{##1}\@ne}%
21835       \let\refstepcounter\stepcounter
21836       \let\label\@gobble
21837       \let\@footnotetext=\@gobble
21838       \let\@LTRfootnotetext=\@gobble
21839       \let\@RTLfootnotetext=\@gobble
21840       \let\hypertarget\@gobbletwo
21841       \edef\xnewline{%
21842         \unexpanded{\ClassInfo{\KOMAClassName}{%
21843           Workaround for not recommended usage of \string\\ or\MessageBreak
21844           \string\newline in caption text
21845         }}%
21846         \hspace*{\linewidth}\hspace{1sp}%
21847       }%
21848       \unexpanded\expandafter{\@xnewline}%
21849     }%
21850     \edef\xcentercr{%
21851       \unexpanded{\ClassInfo{\KOMAClassName}{%
21852         Workaround for not recommended usage of \string\\ or\MessageBreak
21853         \string\newline in caption text
21854       }}%
21855       \hspace*{\linewidth}\hspace{1sp}%
21856     }%
21857     \unexpanded\expandafter{\@xcentercr}%
21858   }%
21859   \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21860   \ifdim\@tempdima>\cap@width
21861     \aftergroup\scr@makemultilinecaption
21862   \else
21863     \aftergroup\scr@makesinglelinecaption
21864   \fi
21865   \else
21866     \aftergroup\scr@makemultilinecaption
21867   \fi
21868 \endgroup
21869 {#1}{#2}{#3}%
21870 }
21871 \renewcommand{\scr@makesinglelinecaption}[3]{%
21872   {%
21873     \usefontofkomafont{caption}{%
21874       \hb@xt@{\hsize}{%
21875         \cap@left
21876         \if@RTL
21877           \beginR
21878         \fi
21879         \scr@makesinglelinecaption{#1}{#2}{#3}%
21880         \if@RTL
21881           \endR

```



```

21882         \fi
21883         \cap@right
21884     }\par\kern\dp\strutbox%
21885     }%
21886 }\kern-\dp\strutbox
21887 }
21888 \renewcommand{\@makecaption}[2]{%
21889   \if@captionabove
21890     \vskip\belowcaptionskip
21891   \else
21892     \vskip\abovecaptionskip
21893   \fi
21894   \@makecaption\@firstofone{#1}{#2}%
21895   \if@captionabove
21896     \vskip\abovecaptionskip
21897   \else
21898     \vskip\belowcaptionskip
21899   \fi
21900 }
21901
21902 \renewcommand{\scr@makesinglelinecaption}[3]{%
21903   {\usekomafont{caption}{\strut\ignorespaces
21904     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21905     \ignorespaces #3\unskip}}%
21906 }
21907
21908 \renewcommand{\scr@makemultilinecaption}[3]{%
21909   {%
21910     \usefontofkomafont{caption}{%
21911       \hb@xt@\hsize{%
21912         \cap@left
21913         \vbox{\hsize\cap@width\linewidth\hsize
21914           \scr@ifundefinedorrelax{@captype}{%
21915             \ClassWarning{\KOMAClassName}{%
21916               '\string\caption' outside float.\MessageBreak
21917               Seems you are using '\string\caption' outside a
21918               float.\MessageBreak
21919               Maybe you are using a package that uses
21920               '\string\@makecaption'\MessageBreak
21921               without setting '\string\@captype' before.\MessageBreak
21922               Because I cannot detect the caption type, I'm using\MessageBreak
21923               the empty one.%
21924             }%
21925             \let\@captype\@empty
21926           }{}%
21927           \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
21928             \@nameuse{ragged\@captype caption}%
21929           }%
21930           \ifdofullc@p
21931             \@hangfrom{%
21932               \strut
21933               \scr@smashdp{%
21934                 #1{%
21935                   \usekomafont{caption}{%

```



```

21936         \usekomafont{captionlabel}{#2\captionformat}%
21937     }%
21938 }%
21939 }%
21940 }%
21941 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21942 \else
21943 \ifdim\cap@indent<\z@
21944 \strut
21945 #1{%
21946     {\usekomafont{caption}{%
21947         \usekomafont{captionlabel}{#2\captionformat}%
21948     }}%
21949 }\par}%
21950 \noindent{{\usekomafont{caption}{%
21951     \hspace*{-\cap@indent}#3\scr@endstrut
21952 }}\par}%
21953 \else
21954 \if@capbreak
21955 \strut
21956 #1{%
21957     {\usekomafont{caption}{%
21958         \usekomafont{captionlabel}{#2\captionformat}%
21959     }}%
21960 }\par}%
21961 \noindent\@hangfrom{\hspace*{\cap@indent}}%
21962 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21963 \else
21964 \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21965 {%
21966     \hspace{-\cap@indent}%
21967     \scr@smashdp{%
21968         #1{\usekomafont{caption}{%
21969             \usekomafont{captionlabel}{#2\captionformat}%
21970         }}%
21971     }%
21972 }%
21973 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21974 }%
21975 \fi
21976 \fi
21977 \fi
21978 }%
21979 \cap@right
21980 }\par\kern\dp\strutbox
21981 }%
21982 }\kern-\dp\strutbox
21983 }
21984
21985 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21986 \if@komalongtable
21987 \renewcommand{LT@makecaption}[3]{%
21988 \noalign{%
21989 \if@captionabove

```



```

21990         \vskip\belowcaptionskip
21991     \else
21992         \vskip\abovecaptionskip
21993     \fi
21994 }%
21995 \LT@mcol\LT@cols c{%
21996     \hbox to\z@{\hss\parbox[t]{\linewidth{%
21997         \def\@capytype{table}%
21998         \@makecaption{#1}{#2}{#3}%
21999         \endgraf
22000         \if@captionabove
22001             \vskip\abovecaptionskip
22002         \else
22003             \vskip\belowcaptionskip
22004         \fi
22005     }}%
22006     \hss
22007 }%
22008 }%
22009 }%
22010 \renewcommand*{\scr@LT@array}{}%
22011 \let\scr@LT@array=\LT@array
22012 \renewcommand*{\LT@array}{%
22013     \let\scr@caption=\LT@caption
22014     \def\captionabove{\noalign{\global\@captionabovetrue}%
22015         \scr@caption}%
22016     \def\captionbelow{\noalign{\global\@captionabovetrue}%
22017         \scr@caption}%
22018     \if@tablecaptionabove
22019         \let\LT@caption=\captionabove
22020     \else
22021         \let\LT@caption=\captionbelow
22022     \fi
22023     \scr@LT@array
22024 }%
22025 \ClassInfo{\KOMAClassName}{%
22026     longtable captions redefined%
22027 }%
22028 \fi
22029 }
22030
22031 \CloneTOCEntryStyle{tocline}{part}
22032 \TOCEntryStyleStartInitCode{part}{%
22033     \expandafter\renewcommand%
22034     \csname scr@tso@#1@linefill\endcsname{\hfill}%
22035     \expandafter\renewcommand%
22036     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22037     \expandafter\renewcommand%
22038     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22039         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22040     \expandafter\renewcommand\expandafter*%
22041     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22042 }
22043

```



```

22044 \CloneTOCEntryStyle{tocline}{section}
22045 \TOCEntryStyleStartInitCode{section}{%
22046   \expandafter\renewcommand%
22047   \csname scr@tso@#1@linefill\endcsname{%
22048     \if@sectionentrywithdots
22049       {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
22050     \else
22051       \hfill
22052     \fi
22053   }%
22054   \expandafter\renewcommand%
22055   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}}%
22056   \expandafter\renewcommand%
22057   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
22058     \expandafter\renewcommand\expandafter*%
22059     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}}}%
22060 }
22061
22062 \CloneTOCEntryStyle{tocline}{subsection}
22063 \TOCEntryStyleStartInitCode{subsection}{%
22064   \expandafter\renewcommand%
22065   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22066   \expandafter\renewcommand%
22067   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22068     {\normalfont\normalcolor ##1}}}%
22069 }
22070
22071 \CloneTOCEntryStyle{subsection}{default}
22072
22073 \DeclareSectionCommand[%
22074   style=section,%
22075   level=1,%
22076   indent=\z@,%
22077   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
22078   afterskip=2.3ex \@plus.2ex,%
22079   tocstyle=section,%
22080   tocindent=0pt,%
22081   tocnumwidth=1.5em%
22082 ]{section}
22083 \DeclareSectionCommand[%
22084   style=part,%
22085   level=\z@,%
22086   tocstyle=part,%
22087   toclevel=\m@ne,%
22088   tocindent=\z@,%
22089   tocnumwidth=2em%
22090 ]{part}
22091 \DeclareSectionCommand[%
22092   style=section,%
22093   level=2,%
22094   indent=\z@,%
22095   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
22096   afterskip=1.5ex \@plus .2ex,%
22097   tocstyle=subsection,%

```



```

22098   tocindent=1.5em,%
22099   tocnumwidth=2.3em%
22100 ]{subsection}
22101 \DeclareSectionCommand[%
22102   style=section,%
22103   level=3,%
22104   indent=\z@,%
22105   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
22106   afterskip=1.5ex \@plus .2ex,%
22107   tocstyle=subsection,%
22108   tocindent=3.8em,%
22109   tocnumwidth=3.2em%
22110 ]{subsubsection}
22111 \DeclareSectionCommand[%
22112   style=section,%
22113   level=4,%
22114   indent=\z@,%
22115   beforeskip=3.25ex \@plus1ex \@minus .2ex,%
22116   afterskip=-1em,%
22117   tocstyle=subsection,%
22118   tocindentfollows=subsubsection,%
22119   tocindent=7.0em,%
22120   tocnumwidth=4.1em%
22121 ]{paragraph}
22122 \DeclareSectionCommand[%
22123   style=section,%
22124   level=5,%
22125   indent=\scr@parindent,%
22126   beforeskip=3.25ex \@plus1ex \@minus .2ex,%
22127   afterskip=-1em,%
22128   tocstyle=subsection,%
22129   tocindent=10em,%
22130   tocnumwidth=5em%
22131 ]{subparagraph}

```

## 142 File scrbook-xetex-bidi.def

```

22132 \ProvidesFile{scrbook-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrbook class for
22133 \newcommand{\scr@saved@LTRfootnotetext}{}
22134 \newcommand{\scr@saved@RTLfootnotetext}{}
22135 \let\scr@saved@footnotetext\@footnotetext
22136 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22137 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22138 \renewcommand{\@footnotetext}[1]{%
22139   \scr@saved@footnotetext{#1}%
22140   \csname FN@mf@prepare\endcsname
22141 }
22142 \renewcommand{\@LTRfootnotetext}[1]{%
22143   \scr@saved@LTRfootnotetext{#1}%
22144   \csname FN@mf@prepare\endcsname
22145 }
22146 \renewcommand{\@RTLfootnotetext}[1]{%
22147   \scr@saved@RTLfootnotetext{#1}%
22148   \csname FN@mf@prepare\endcsname

```



```

22149 }
22150 \renewcommand\deffootnote[4] [] {%
22151   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22152     \long\def\@makefnmark##1{%
22153       \ExecuteDoHook{footnote/text/begin}%
22154       \raggedfootnote
22155       \if@RTL
22156         \rightskip
22157       \else
22158         \leftskip
22159       \fi
22160       #2
22161       \l@addto@macro\@trivlist{%
22162         \ifnum\@listdepth=\@one\advance
22163           \if@RTL
22164             \rightmargin #2\relax
22165           \else
22166             \leftmargin #2\relax
22167           \fi
22168         \fi
22169       }%
22170       \parindent #3\noindent
22171       \IfArgIsEmpty{#1}{}%
22172       \hskip \dimexpr #1-#2\relax
22173     }%
22174     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22175     \ExecuteDoHook{footnote/text/end}%
22176   }%
22177 \else
22178   \ClassInfo{\KOMAClassName}{%
22179     Using old \string\@makefnmark\space due to compatibility
22180     level\MessageBreak
22181     less than 3.22}%
22182   \long\def\@makefnmark##1{%
22183     \setlength{\@tempdimc}{#3}%
22184     \def\@tempa{#1}\ifx\@tempa\@empty
22185       \@setpar{\@par
22186         \@tempdima = \hsize
22187         \addtolength{\@tempdima}{-#2}%
22188         \if@RTL
22189           \parshape \@one \z@ \@tempdima
22190         \else
22191           \parshape \@one #2 \@tempdima
22192         \fi
22193       }%
22194     \else
22195       \addtolength{\@tempdimc}{#2}%
22196       \addtolength{\@tempdimc}{-#1}%
22197       \@setpar{\@par
22198         \@tempdima = \hsize
22199         \addtolength{\@tempdima}{-#1}%
22200         \@tempdimb = \hsize
22201         \addtolength{\@tempdimb}{-#2}%
22202         \if@RTL

```





```

22203         \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22204     \else
22205         \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22206     \fi
22207 }%
22208 \fi
22209 \par
22210 \parindent\@tempdimc\noindent
22211 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22212 }%
22213 \fi
22214 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
22215 }
22216 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
22217 \renewcommand*\left@footnoterule{%
22218     \normalsize\ftn@rule@test@values
22219     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22220     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22221     {\usekomafont{footnoterule}{%
22222         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
22223     \kern 2.6\p@}
22224 \renewcommand*\right@footnoterule{%
22225     \normalsize\ftn@rule@test@values
22226     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22227     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22228     {\usekomafont{footnoterule}{%
22229         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
22230     \kern 2.6\p@}
22231 \renewcommand*\maketitle[1][1]{%
22232     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
22233     \else
22234         \def\and{%
22235             \end{tabular}%
22236             \hskip 1em \@plus.17fil%
22237             \begin{tabular}[t]{c}%
22238         }%
22239     \fi
22240     \if@titlepage
22241         \begin{titlepage}
22242             \setcounter{page}{%
22243                 #1%
22244             }%
22245             \if@titlepageiscoverpage
22246                 \edef\titlename@restore{%
22247                     \noexpand\endgroup
22248                     \noexpand\global\noexpand\@colht\the\@colht
22249                     \noexpand\global\noexpand\@colroom\the\@colroom
22250                     \noexpand\global\vsizethe\vsizethe
22251                     \noexpand\global\noexpand\@titlepageiscoverpagefalse
22252                     \noexpand\let\noexpand\titlename@restore\noexpand\relax
22253                 }%
22254                 \begin{group
22255                     \topmargin=\dimexpr \coverpagetopmargin-1in\relax
22256                     \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax

```



```

22257      \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
22258      \textwidth=\dimexpr
22259      \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
22260      \textheight=\dimexpr
22261      \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
22262      \headheight=0pt
22263      \headsep=0pt
22264      \footskip=\baselineskip
22265      \@colht=\textheight
22266      \@colroom=\textheight
22267      \vsize=\textheight
22268      \columnwidth=\textwidth
22269      \hsize=\columnwidth
22270      \linewidth=\hsize
22271      \else
22272      \let\titlepage@restore\relax
22273      \fi
22274      \let\footnotesize\small
22275      \let\right@footnoterule\relax
22276      \let\left@footnoterule\relax
22277      \let\textwidth@footnoterule\relax
22278      \let\footnote\thanks
22279      \let\LTRfootnote\LTRthanks
22280      \let\RTLfootnote\RTLthanks
22281      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22282      \let\oldmakefnmark\makefnmark
22283      \renewcommand*{\@makefnmark}{\rlap{\oldmakefnmark}}%
22284      \ifx\@extratitle\@empty
22285      \ifx\@frontispiece\@empty
22286      \else
22287      \if@twoside\mbox{}\next@tpage\fi
22288      \noindent\@frontispiece\next@tdpage
22289      \fi
22290      \else
22291      \noindent\@extratitle
22292      \ifx\@frontispiece\@empty
22293      \else
22294      \next@tpage
22295      \noindent\@frontispiece
22296      \fi
22297      \next@tdpage
22298      \fi
22299      \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updateerelative
22300      \ifx\@titlehead\@empty \else
22301      \begin{minipage}[t]{\textwidth}%
22302      \usekomafont{titlehead}{\@titlehead\par}%
22303      \end{minipage}\par
22304      \fi
22305      \null\vfill
22306      \begin{center}
22307      \ifx\@subject\@empty \else
22308      {\usekomafont{subject}{\@subject\par}}%
22309      \vskip 3em
22310      \fi

```



```

22311      {\usekomafont{title}{\huge \@title\par}}%
22312      \vskip 1em
22313      {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
22314      \vskip 2em
22315      {%
22316          \usekomafont{author}{%
22317              \lineskip 0.75em
22318              \begin{tabular}[t]{c}
22319                  \@author
22320              \end{tabular}\par
22321          }%
22322      }%
22323      \vskip 1.5em
22324      {\usekomafont{date}{\@date \par}}%
22325      \vskip \z@ \@plus3fill
22326      {\usekomafont{publishers}{\@publishers \par}}%
22327      \vskip 3em
22328      \end{center}\par
22329      \@thanks\global\let\@thanks\@empty
22330      \vfill\null
22331      \if@twoside
22332          \@tempwatrue
22333          \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
22334          \else
22335              \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
22336                  \@tempwafalse
22337              \fi\fi
22338          \fi
22339          \if@tempswa
22340              \next@tpage
22341              \begin{minipage}[t]{\textwidth}
22342                  \@uppertitleback
22343              \end{minipage}\par
22344              \vfill
22345              \begin{minipage}[b]{\textwidth}
22346                  \@lowertitleback
22347              \end{minipage}\par
22348              \@thanks\global\let\@thanks\@empty
22349          \fi
22350      \else
22351          \ifx\@uppertitleback\@empty\else
22352              \ClassWarning{\KOMAClassName}{%
22353                  non empty \string\uppertitleback\space ignored
22354                  by \string\maketitle\MessageBreak
22355                  in `twoside=false' mode%
22356              }%
22357          \fi
22358          \ifx\@lowertitleback\@empty\else
22359              \ClassWarning{\KOMAClassName}{%
22360                  non empty \string\lowertitleback\space ignored
22361                  by \string\maketitle\MessageBreak
22362                  in `twoside=false' mode%
22363              }%
22364          \fi

```



```

22365 \fi
22366 \ifx\@dedication\@empty
22367 \else
22368 \next@tdpage\null\vfill
22369 {\centering\usekomafont{dedication}{\@dedication \par}}%
22370 \vskip \z@ \@plus3fill
22371 \@thanks\global\let\@thanks\@empty
22372 \cleardoubleemptypage
22373 \fi
22374 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
22375 \end{titlepage}
22376 \else
22377 \par
22378 \@tempcnta=%
22379 #1%
22380 \relax\ifnum\@tempcnta=1\else
22381 \ClassWarning{\KOMAClassName}{%
22382 Optional argument of \string\maketitle\space ignored\MessageBreak
22383 in `titlepage=false' mode%
22384 }%
22385 \fi
22386 \ifx\@uppertitleback\@empty\else
22387 \ClassWarning{\KOMAClassName}{%
22388 non empty \string\uppertitleback\space ignored
22389 by \string\maketitle\MessageBreak
22390 in `titlepage=false' mode%
22391 }%
22392 \fi
22393 \ifx\@lowertitleback\@empty\else
22394 \ClassWarning{\KOMAClassName}{%
22395 non empty \string\lowertitleback\space ignored
22396 by \string\maketitle\MessageBreak
22397 in `titlepage=false' mode%
22398 }%
22399 \fi
22400 \begingroup
22401 \let\titlepage@restore\relax
22402 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22403 \let\@oldmakefnmark\@makefnmark
22404 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
22405 \next@tdpage
22406 \if@twocolumn
22407 \ifnum \col@number=\@one
22408 \ifx\@extratitle\@empty
22409 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22410 \else
22411 \@makeextratitle
22412 \fi
22413 \ifx\@frontispiece\@empty
22414 \ifx\@extratitle\@empty\else\next@tdpage\fi
22415 \else
22416 \next@tpage
22417 \@makefrontispiece
22418 \next@tdpage

```



```

22419         \fi
22420         \@maketitle
22421     \else
22422         \ifx\@extratitle\@empty
22423             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22424         \else
22425             \twocolumn[\@makeextratitle]%
22426         \fi
22427         \ifx\@frontispiece\@empty
22428             \ifx\@extratitle\@empty\else\next@tdpage\fi
22429         \else
22430             \next@tpage
22431             \twocolumn[\@makefrontispiece]%
22432             \next@tdpage
22433         \fi
22434         \twocolumn[\@maketitle]%
22435     \fi
22436 \else
22437     \ifx\@extratitle\@empty
22438         \ifx\@frontispiece\@empty\else \mbox{}\fi
22439     \else
22440         \@makeextratitle
22441     \fi
22442     \ifx\@frontispiece\@empty
22443         \ifx\@extratitle\@empty\else\next@tdpage\fi
22444     \else
22445         \next@tpage
22446         \@makefrontispiece
22447         \next@tdpage
22448     \fi
22449     \@maketitle
22450 \fi
22451 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
22452 \@thanks\global\let\@thanks\@empty
22453 \endgroup
22454 \fi
22455 \setcounter{footnote}{0}%
22456 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
22457     \let\thanks\relax
22458     \let\LTRthanks\relax
22459     \let\RTLthanks\relax
22460     \let\maketitle\relax
22461     \let\@maketitle\relax
22462     \global\let\@thanks\@empty
22463     \global\let\@author\@empty
22464     \global\let\@date\@empty
22465     \global\let\@title\@empty
22466     \global\let\@subtitle\@empty
22467     \global\let\@extratitle\@empty
22468     \global\let\@frontispiece\@empty
22469     \global\let\@titlehead\@empty
22470     \global\let\@subject\@empty
22471     \global\let\@publishers\@empty
22472     \global\let\@uppertitleback\@empty

```



```

22473 \global\let\@lowertitleback\@empty
22474 \global\let\@dedication\@empty
22475 \global\let\author\relax
22476 \global\let\title\relax
22477 \global\let\extratitle\relax
22478 \global\let\titlehead\relax
22479 \global\let\subject\relax
22480 \global\let\publishers\relax
22481 \global\let\uppertitleback\relax
22482 \global\let\lowertitleback\relax
22483 \global\let\dedication\relax
22484 \global\let\date\relax
22485 \fi
22486 \global\let\and\relax
22487 }%
22488 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
22489 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
22490 \renewcommand*\thesection{%
22491 \expandafter\ifnum\scr@v@is@gt{2.97d}%
22492 \if@mainmatter\thechapter\@SepMark\fi
22493 \else
22494 \thechapter\@SepMark%
22495 \fi
22496 \@arabic\c@section
22497 }
22498 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
22499 \renewcommand*{\thesubsubsection}{%
22500 \thesubsection\@SepMark\@arabic\c@subsubsection
22501 }
22502 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
22503 \renewcommand*{\thesubparagraph}{%
22504 \theparagraph\@SepMark\@arabic\c@subparagraph
22505 }
22506 \expandafter\ifnum\scr@v@is@le{2.97d}%
22507 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
22508 \fi
22509 \expandafter\ifnum\scr@v@is@le{2.97d}%
22510 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
22511 \fi
22512 \renewcommand*\theequation{%
22513 \expandafter\ifnum\scr@v@is@gt{2.97d}%
22514 \if@mainmatter\thechapter\@SepMark\fi
22515 \else
22516 \thechapter\@SepMark%
22517 \fi
22518 \@arabic\c@equation
22519 }
22520 \renewenvironment{thebibliography}[1]{%
22521 \if@bib@break@
22522 \bib@beginhook
22523 \else
22524 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
22525 \setchapterpreamble{\bibpreamble}%
22526 \fi\fi

```



```

22527 \bib@heading
22528 \bib@beginhook
22529 \bib@before@hook
22530 \fi
22531 \renewcommand{\BreakBibliography}[1]{%
22532 \@bib@break
22533 \end{thebibliography}%
22534 \begingroup ##1\endgroup
22535 \begin{thebibliography}{#1}
22536 }%
22537 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
22538 \bidi@thebibliography@font@hook%
22539 \list{%
22540 \@biblabel{\@arabic\c@enumiv}%
22541 }{%
22542 \settowidth\labelwidth{\@biblabel{#1}}%
22543 \leftmargin\labelwidth
22544 \advance\leftmargin\labelsep
22545 \@openbib@code
22546 \if@bib@break@
22547 \edef\@tempa{%
22548 \noexpand\usecounter{enumiv}%
22549 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
22550 }\@tempa
22551 \no@bib@break
22552 \else
22553 \usecounter{enumiv}%
22554 \fi
22555 \let\p@enumiv\@empty
22556 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
22557 }%
22558 \sloppy\clubpenalty4000 \widowpenalty4000
22559 \sfcode`\.=\@m
22560 }{%
22561 \if@bib@break@
22562 \def\@noitemerr{%
22563 \@latex@warning{%
22564 \string\BreakBibliography\space at begin of `thebibliography'
22565 environment\MessageBreak
22566 or following \string\BreakBibliography}%
22567 }%
22568 \else
22569 \def\@noitemerr{%
22570 \@latex@warning{%
22571 Empty `thebibliography' environment or
22572 \string\BreakBibliography\MessageBreak
22573 before end of `thebibliography' environment}%
22574 }%
22575 \fi
22576 \endlist
22577 \if@bib@break@
22578 \else
22579 \bib@after@hook
22580 \let\bib@before@hook\@empty

```



```

22581 \let\bib@after@hook\empty
22582 \fi
22583 \bib@endhook
22584 }
22585 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
22586 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
22587 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
22588 \renewcommand\marginline[1]{%
22589 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
22590 }
22591 \renewcommand{\@@makecaption}[3]{%
22592 \cap@margin
22593 \begingroup
22594 \ifonelinecaptions
22595 \def\stepcounter##1{\advance\value{##1}\@ne}%
22596 \let\refstepcounter\stepcounter
22597 \let\label\@gobble
22598 \let\@footnotetext=\@gobble
22599 \let\@LTRfootnotetext=\@gobble
22600 \let\@RTLfootnotetext=\@gobble
22601 \let\hypertarget\@gobbletwo
22602 \edef\@xnewline{%
22603 \unexpanded{\ClassInfo{\KOMAClassName}{%
22604 Workaround for not recommended usage of \string\\ or\MessageBreak
22605 \string\newline in caption text
22606 }%
22607 \hspace*{\linewidth}\hspace{1sp}%
22608 }%
22609 \unexpanded\expandafter{\@xnewline}%
22610 }%
22611 \edef\@xcentercr{%
22612 \unexpanded{\ClassInfo{\KOMAClassName}{%
22613 Workaround for not recommended usage of \string\\ or\MessageBreak
22614 \string\newline in caption text
22615 }%
22616 \hspace*{\linewidth}\hspace{1sp}%
22617 }%
22618 \unexpanded\expandafter{\@xcentercr}%
22619 }%
22620 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
22621 \ifdim\@tempdima>\cap@width
22622 \aftergroup\scr@makemultilinecaption
22623 \else
22624 \aftergroup\scr@makesinglelinecaption
22625 \fi
22626 \else
22627 \aftergroup\scr@makemultilinecaption
22628 \fi
22629 \endgroup
22630 {#1}{#2}{#3}%
22631 }
22632 \renewcommand{\scr@makesinglelinecaption}[3]{%
22633 {%
22634 \usefontofkomafont{caption}{%

```





```

22635 \hb@xt@\hsize{%
22636 \cap@left
22637 \if@RTL
22638 \beginR
22639 \fi
22640 \scr@@makesinglelinecaption{#1}{#2}{#3}%
22641 \if@RTL
22642 \endR
22643 \fi
22644 \cap@right
22645 }\par\kern\dp\strutbox%
22646 }%
22647 }\kern-\dp\strutbox
22648 }
22649 \renewcommand{\@makecaption}[2]{%
22650 \if@captionabove
22651 \vskip\belowcaptionskip
22652 \else
22653 \vskip\abovecaptionskip
22654 \fi
22655 \@makecaption\@firstofone{#1}{#2}%
22656 \if@captionabove
22657 \vskip\abovecaptionskip
22658 \else
22659 \vskip\belowcaptionskip
22660 \fi
22661 }
22662
22663 \renewcommand{\scr@@makesinglelinecaption}[3]{%
22664 {\usekomafont{caption}{\strut\ignorespaces
22665 #1{\usekomafont{captionlabel}{#2\captionformat}}}%
22666 \ignorespaces #3\unskip}}%
22667 }
22668
22669 \renewcommand{\scr@makemultilinecaption}[3]{%
22670 {%
22671 \usefontofkomafont{caption}{%
22672 \hb@xt@\hsize{%
22673 \cap@left
22674 \vbox{\hsize\cap@width\linewidth\hsize
22675 \scr@ifundefinedorrelax{@captype}{%
22676 \ClassWarning{\KOMAClassName}{%
22677 \string\caption' outside float.\MessageBreak
22678 Seems you are using \string\caption' outside a
22679 float.\MessageBreak
22680 Maybe you are using a package that uses
22681 \string\makecaption'\MessageBreak
22682 without setting \string\captype' before.\MessageBreak
22683 Because I cannot detect the caption type, I'm using\MessageBreak
22684 the empty one.%
22685 }%
22686 \let\captype\@empty
22687 }}%
22688 \scr@ifundefinedorrelax{ragged\captype}{\raggedcaption}{%

```



```

22689         \@nameuse{ragged\@captype caption}%
22690     }%
22691     \ifdofullc@p
22692         \@hangfrom{%
22693             \strut
22694             \scr@smashdp{%
22695                 #1{%
22696                     \usekomafont{caption}{%
22697                         \usekomafont{captionlabel}{#2\captionformat}%
22698                     }%
22699                 }%
22700             }%
22701         }%
22702         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22703     \else
22704         \ifdim\cap@indent<\z@
22705             \strut
22706             #1{%
22707                 {\usekomafont{caption}{%
22708                     \usekomafont{captionlabel}{#2\captionformat}%
22709                 }%
22710             }\par}%
22711             \noindent{{\usekomafont{caption}{%
22712                 \hspace*{-\cap@indent}#3\scr@endstrut
22713             }}\par}%
22714         \else
22715             \if@capbreak
22716                 \strut
22717                 #1{%
22718                     {\usekomafont{caption}{%
22719                         \usekomafont{captionlabel}{#2\captionformat}%
22720                     }
22721                 }\par}%
22722                 \noindent\@hangfrom{\hspace*{\cap@indent}}%
22723                 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22724             \else
22725                 \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22726                 {%
22727                     \hspace*{-\cap@indent}%
22728                     \scr@smashdp{%
22729                         #1{\usekomafont{caption}{%
22730                             \usekomafont{captionlabel}{#2\captionformat}%
22731                         }%
22732                     }%
22733                 }%
22734                 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22735             }%
22736         \fi
22737     \fi
22738 \fi
22739 }%
22740 \cap@right
22741 }\par\kern\dp\strutbox
22742 }%

```



```

22743 } \kern-\dp\strutbox
22744 }
22745
22746
22747 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22748 \if@komalongtable
22749 \renewcommand{\LT@makecaption}[3]{%
22750 \noalign{%
22751 \if@captionabove
22752 \vskip\belowcaptionskip
22753 \else
22754 \vskip\abovecaptionskip
22755 \fi
22756 }%
22757 \LT@mcol\LT@cols c{%
22758 \hbox to\z@{\hss\parbox[t]{\linewidth{%
22759 \def\@capytype{table}%
22760 \@makecaption{#1}{#2}{#3}%
22761 \endgraf
22762 \if@captionabove
22763 \vskip\abovecaptionskip
22764 \else
22765 \vskip\belowcaptionskip
22766 \fi
22767 }%
22768 \hss
22769 }%
22770 }%
22771 }%
22772 \renewcommand*{\scr@LT@array}{}%
22773 \let\scr@LT@array=\LT@array
22774 \renewcommand*{\LT@array}{%
22775 \let\scr@caption=\LT@caption
22776 \def\captionabove{\noalign{\global\@captionabovetrue}%
22777 \scr@caption}%
22778 \def\captionbelow{\noalign{\global\@captionabovetrue}%
22779 \scr@caption}%
22780 \if@tablecaptionabove
22781 \let\LT@caption=\captionabove
22782 \else
22783 \let\LT@caption=\captionbelow
22784 \fi
22785 \scr@LT@array
22786 }%
22787 \ClassInfo{\KOMAClassName}{%
22788 longtable captions redefined%
22789 }%
22790 \fi
22791 }
22792
22793 \CloneTOCEntryStyle{tocline}{part}
22794 \TOCEntryStyleStartInitCode{part}{%
22795 \expandafter\renewcommand%
22796 \csname scr@tso@#1@linefill\endcsname{\hfill}%

```



```

22797 \expandafter\renewcommand%
22798 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22799 \expandafter\renewcommand%
22800 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22801   {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22802 \expandafter\renewcommand\expandafter*%
22803 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22804 }
22805
22806 \CloneTOCEntryStyle{tocline}{chapter}
22807 \TOCEntryStyleStartInitCode{chapter}{%
22808   \expandafter\renewcommand%
22809   \csname scr@tso@#1@linefill\endcsname{%
22810     \if@chapterentrywithdots
22811       {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22812     \else
22813       \hfill
22814     \fi
22815   }%
22816   \expandafter\renewcommand%
22817   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
22818   \expandafter\renewcommand%
22819   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22820     {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
22821   \expandafter\renewcommand\expandafter*%
22822   \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
22823 }
22824
22825 \CloneTOCEntryStyle{tocline}{section}
22826 \TOCEntryStyleStartInitCode{section}{%
22827   \expandafter\renewcommand%
22828   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22829   \expandafter\renewcommand%
22830   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22831     {\normalfont\normalcolor ##1}}%
22832 }
22833
22834 \CloneTOCEntryStyle{section}{default}
22835
22836 \DeclareSectionCommand[%
22837   style=chapter,%
22838   level=\z@,%
22839   pagestyle=plain,%
22840   tocstyle=chapter,%
22841   tocindent=\z@,%
22842   tocnumwidth=1.5em%
22843 ]{chapter}
22844 \DeclareSectionCommand[%
22845   style=section,%
22846   level=1,%
22847   indent=\z@,%
22848   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
22849   afterskip=2.3ex \@plus.2ex,%
22850   tocstyle=section,%

```



```

22851 tocindentfollows=chapter,%
22852 tocindent=1.5em,%
22853 tocnumwidth=2.3em%
22854 ]{section}
22855 \DeclareSectionCommand[%
22856 style=part,%
22857 level=\m@ne,%
22858 pagestyle=plain,%
22859 tocstyle=part,%
22860 toplevel=\m@ne,%
22861 tocindent=\z@,%
22862 tocnumwidth=2em%
22863 ]{part}
22864 \DeclareSectionCommand[%
22865 style=section,%
22866 level=2,%
22867 indent=\z@,%
22868 beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22869 afterskip=1.5ex \@plus .2ex,%
22870 tocstyle=section,%
22871 tocindent=3.8em,%
22872 tocnumwidth=3.2em%
22873 ]{subsection}
22874 \DeclareSectionCommand[%
22875 style=section,%
22876 level=3,%
22877 indent=\z@,%
22878 beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22879 afterskip=1.5ex \@plus .2ex,%
22880 tocstyle=section,%
22881 tocindent=7.0em,%
22882 tocnumwidth=4.1em%
22883 ]{subsubsection}
22884 \DeclareSectionCommand[%
22885 style=section,%
22886 level=4,%
22887 indent=\z@,%
22888 beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22889 afterskip=-1em,%
22890 tocindentfollows=subsubsection,%
22891 tocstyle=section,%
22892 tocindent=10em,%
22893 tocnumwidth=5em%
22894 ]{paragraph}
22895 \DeclareSectionCommand[%
22896 style=section,%
22897 level=5,%
22898 indent=\scr@parindent,%
22899 beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22900 afterskip=-1em,%
22901 tocstyle=section,%
22902 tocindent=12em,%
22903 tocnumwidth=6em%
22904 ]{subparagraph}

```



## 143 File `scrreprt-xetex-bidi.def`

```

22905 \ProvidesFile{scrreprt-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrreprt class f
22906 \newcommand{\scr@saved@LTRfootnotetext}{}
22907 \newcommand{\scr@saved@RTLfootnotetext}{}
22908 \let\scr@saved@footnotetext\@footnotetext
22909 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22910 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22911 \renewcommand{\@footnotetext}[1]{%
22912   \scr@saved@footnotetext{#1}%
22913   \csname FN@mfb@prepare\endcsname
22914 }
22915 \renewcommand{\@LTRfootnotetext}[1]{%
22916   \scr@saved@LTRfootnotetext{#1}%
22917   \csname FN@mfb@prepare\endcsname
22918 }
22919 \renewcommand{\@RTLfootnotetext}[1]{%
22920   \scr@saved@RTLfootnotetext{#1}%
22921   \csname FN@mfb@prepare\endcsname
22922 }
22923 \renewcommand\deffootnote[4][]{%
22924   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22925     \long\def\@makefnmark##1{%
22926       \ExecuteDoHook{footnote/text/begin}%
22927       \raggedfootnote
22928       \if@RTL
22929         \rightskip
22930       \else
22931         \leftskip
22932       \fi
22933       #2
22934       \l@addto@macro\@trivlist{%
22935         \ifnum\@listdepth=\@ne
22936           \if@RTL
22937             \advance\rightmargin #2\relax
22938           \else
22939             \advance\leftmargin #2\relax
22940           \fi
22941         \fi
22942       }%
22943       \parindent #3\noindent
22944       \IfArgIsEmpty{#1}{-}{%
22945         \hskip \dimexpr #1-#2\relax
22946       }%
22947       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22948       \ExecuteDoHook{footnote/text/end}%
22949     }%
22950   \else
22951     \ClassInfo{\KOMAClassName}{%
22952       Using old \string\@makefnmark\space due to compatibility
22953       level\MessageBreak
22954       less than 3.22}%
22955     \long\def\@makefnmark##1{%
22956       \setlength{\@tempdimc}{#3}%

```



```

22957 \def\@tempa{#1}\ifx\@tempa\@empty
22958 \setpar{\@par
22959 \@tempdima = \hspace
22960 \addtolength{\@tempdima}{-#2}%
22961 \if@RTL
22962 \parshape \@ne \z@ \@tempdima
22963 \else
22964 \parshape \@ne #2 \@tempdima
22965 \fi
22966 }%
22967 \else
22968 \addtolength{\@tempdimc}{#2}%
22969 \addtolength{\@tempdimc}{-#1}%
22970 \setpar{\@par
22971 \@tempdima = \hspace
22972 \addtolength{\@tempdima}{-#1}%
22973 \@tempdimb = \hspace
22974 \addtolength{\@tempdimb}{-#2}%
22975 \if@RTL
22976 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22977 \else
22978 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22979 \fi
22980 }%
22981 \fi
22982 \par
22983 \parindent\@tempdimc\noindent
22984 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22985 }%
22986 \fi
22987 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
22988 }
22989 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
22990 \renewcommand*\left@footnoterule{%
22991 \normalsize\ftn@rule@test@values
22992 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22993 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22994 {\usekomafont{footnoterule}}%
22995 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
22996 \kern 2.6\p@}
22997 \renewcommand*\right@footnoterule{%
22998 \normalsize\ftn@rule@test@values
22999 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
23000 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
23001 {\usekomafont{footnoterule}}%
23002 \hbox to \columnwidth{\hspace \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
23003 \kern 2.6\p@}
23004 \renewcommand*\maketitle[1][1]{%
23005 \expandafter\ifnum \cscname scr@v@3.12\endcsname>\scr@compatibility\relax
23006 \else
23007 \def\and{%
23008 \end{tabular}}%
23009 \hspace 1em \@plus.17fil%
23010 \begin{tabular}[t]{c}%

```



```

23011     }%
23012 \fi
23013 \if@titlepage
23014     \begin{titlepage}
23015         \setcounter{page}{%
23016             #1%
23017         }%
23018         \if@titlepageiscoverpage
23019             \edef\ttitlepage@restore{%
23020                 \noexpand\endgroup
23021                 \noexpand\global\noexpand\@colht\the\@colht
23022                 \noexpand\global\noexpand\@colroom\the\@colroom
23023                 \noexpand\global\vsizethe\vsizethe
23024                 \noexpand\global\noexpand\@titlepageiscoverpagefalse
23025                 \noexpand\let\noexpand\ttitlepage@restore\noexpand\relax
23026             }%
23027             \begin{group}
23028                 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
23029                 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
23030                 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
23031                 \textwidth=\dimexpr
23032                 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
23033                 \textheight=\dimexpr
23034                 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
23035                 \headheight=0pt
23036                 \headsep=0pt
23037                 \footskip=\baselineskip
23038                 \@colht=\textheight
23039                 \@colroom=\textheight
23040                 \vsizethe\textheight
23041                 \columnwidth=\textwidth
23042                 \hsize=\columnwidth
23043                 \linewidth=\hsize
23044             \else
23045                 \let\ttitlepage@restore\relax
23046             \fi
23047             \let\footnotesize\small
23048             \let\right@footnoterule\relax
23049             \let\left@footnoterule\relax
23050             \let\textwidth@footnoterule\relax
23051             \let\footnote\thanks
23052             \let\LTRfootnote\LTRthanks
23053             \let\RTLfootnote\RTLthanks
23054             \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23055             \let\@oldmakefnmark\@makefnmark
23056             \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
23057             \ifx\@extratitle\@empty
23058                 \ifx\@frontispiece\@empty
23059                     \else
23060                         \if@twoside\mbox{}\next@tpage\fi
23061                         \noindent\@frontispiece\next@tdpage
23062                     \fi
23063                 \else
23064                     \noindent\@extratitle

```





```

23065 \ifx\@frontispiece\@empty
23066 \else
23067 \next@tpage
23068 \noindent\@frontispiece
23069 \fi
23070 \next@tdpage
23071 \fi
23072 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updateerelative
23073 \ifx\@titlehead\@empty \else
23074 \begin{minipage}[t]{\textwidth}%
23075 \usekomafont{titlehead}{\@titlehead\par}%
23076 \end{minipage}\par
23077 \fi
23078 \null\vfill
23079 \begin{center}
23080 \ifx\@subject\@empty \else
23081 {\usekomafont{subject}{\@subject\par}}%
23082 \vskip 3em
23083 \fi
23084 {\usekomafont{title}{\huge \@title\par}}%
23085 \vskip 1em
23086 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
23087 \vskip 2em
23088 {%
23089 \usekomafont{author}{%
23090 \lineskip 0.75em
23091 \begin{tabular}[t]{c}
23092 \@author
23093 \end{tabular}\par
23094 }%
23095 }%
23096 \vskip 1.5em
23097 {\usekomafont{date}{\@date \par}}%
23098 \vskip \z@ \@plus3fill
23099 {\usekomafont{publishers}{\@publishers \par}}%
23100 \vskip 3em
23101 \end{center}\par
23102 \@thanks\global\let\@thanks\@empty
23103 \vfill\null
23104 \if@twoside
23105 \@tempswatrue
23106 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
23107 \else
23108 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
23109 \@tempswafalse
23110 \fi\fi
23111 \fi
23112 \if@tempswa
23113 \next@tpage
23114 \begin{minipage}[t]{\textwidth}
23115 \@uppertitleback
23116 \end{minipage}\par
23117 \vfill
23118 \begin{minipage}[b]{\textwidth}

```



```

23119         \@lowertitleback
23120     \end{minipage}\par
23121     \@thanks\global\let\@thanks\@empty
23122 \fi
23123 \else
23124     \ifx\@uppertitleback\@empty\else
23125         \ClassWarning{\KOMAClassName}{%
23126             non empty \string\uppertitleback\space ignored
23127             by \string\maketitle\MessageBreak
23128             in `twoside=false' mode%
23129         }%
23130     \fi
23131     \ifx\@lowertitleback\@empty\else
23132         \ClassWarning{\KOMAClassName}{%
23133             non empty \string\lowertitleback\space ignored
23134             by \string\maketitle\MessageBreak
23135             in `twoside=false' mode%
23136         }%
23137     \fi
23138 \fi
23139 \ifx\@dedication\@empty
23140 \else
23141     \next@tdpage\null\vfill
23142     {\centering\usekomafont{dedication}{\@dedication \par}}%
23143     \vskip \z@ \@plus3fill
23144     \@thanks\global\let\@thanks\@empty
23145     \cleardoubleemptypage
23146 \fi
23147 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
23148 \end{titlepage}
23149 \else
23150     \par
23151     \@tempcnta=%
23152     #1%
23153     \relax\ifnum\@tempcnta=1\else
23154         \ClassWarning{\KOMAClassName}{%
23155             Optional argument of \string\maketitle\space ignored\MessageBreak
23156             in `titlepage=false' mode%
23157         }%
23158     \fi
23159     \ifx\@uppertitleback\@empty\else
23160         \ClassWarning{\KOMAClassName}{%
23161             non empty \string\uppertitleback\space ignored
23162             by \string\maketitle\MessageBreak
23163             in `titlepage=false' mode%
23164         }%
23165     \fi
23166     \ifx\@lowertitleback\@empty\else
23167         \ClassWarning{\KOMAClassName}{%
23168             non empty \string\lowertitleback\space ignored
23169             by \string\maketitle\MessageBreak
23170             in `titlepage=false' mode%
23171         }%
23172     \fi

```



```

23173 \beginngroup
23174 \let\titlename@restore\relax
23175 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23176 \let\@oldmakefnmark\@makefnmark
23177 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
23178 \next@tdpage
23179 \if@twocolumn
23180 \ifnum \col@number=\@ne
23181 \ifx\@extratitle\@empty
23182 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23183 \else
23184 \@makeextratitle
23185 \fi
23186 \ifx\@frontispiece\@empty
23187 \ifx\@extratitle\@empty\else\next@tdpage\fi
23188 \else
23189 \next@tpage
23190 \@makefrontispiece
23191 \next@tdpage
23192 \fi
23193 \@maketitle
23194 \else
23195 \ifx\@extratitle\@empty
23196 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23197 \else
23198 \twocolumn[\@makeextratitle]%
23199 \fi
23200 \ifx\@frontispiece\@empty
23201 \ifx\@extratitle\@empty\else\next@tdpage\fi
23202 \else
23203 \next@tpage
23204 \twocolumn[\@makefrontispiece]%
23205 \next@tdpage
23206 \fi
23207 \twocolumn[\@maketitle]%
23208 \fi
23209 \else
23210 \ifx\@extratitle\@empty
23211 \ifx\@frontispiece\@empty\else \mbox{}\fi
23212 \else
23213 \@makeextratitle
23214 \fi
23215 \ifx\@frontispiece\@empty
23216 \ifx\@extratitle\@empty\else\next@tdpage\fi
23217 \else
23218 \next@tpage
23219 \@makefrontispiece
23220 \next@tdpage
23221 \fi
23222 \@maketitle
23223 \fi
23224 \ifx\titlenamestyle\@empty\else\thispagenstyle{\titlenamestyle}\fi
23225 \@thanks\global\let\@thanks\@empty
23226 \endgroup

```



```

23227 \fi
23228 \setcounter{footnote}{0}%
23229 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
23230 \let\thanks\relax
23231 \let\LTRthanks\relax
23232 \let\RTLthanks\relax
23233 \let\maketitle\relax
23234 \let\@maketitle\relax
23235 \global\let\@thanks\@empty
23236 \global\let\@author\@empty
23237 \global\let\@date\@empty
23238 \global\let\@title\@empty
23239 \global\let\@subtitle\@empty
23240 \global\let\@extratitle\@empty
23241 \global\let\@frontispiece\@empty
23242 \global\let\@titlehead\@empty
23243 \global\let\@subject\@empty
23244 \global\let\@publishers\@empty
23245 \global\let\@uppertitleback\@empty
23246 \global\let\@lowertitleback\@empty
23247 \global\let\@dedication\@empty
23248 \global\let\author\relax
23249 \global\let\title\relax
23250 \global\let\extratitle\relax
23251 \global\let\titlehead\relax
23252 \global\let\subject\relax
23253 \global\let\publishers\relax
23254 \global\let\uppertitleback\relax
23255 \global\let\lowertitleback\relax
23256 \global\let\dedication\relax
23257 \global\let\date\relax
23258 \fi
23259 \global\let\and\relax
23260 }%
23261 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
23262 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
23263 \renewcommand*\thesection{%
23264 \thechapter\@SepMark%
23265 \@arabic\c@section
23266 }
23267 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
23268 \renewcommand*{\thesubsubsection}{%
23269 \thesubsection\@SepMark\@arabic\c@subsubsection
23270 }
23271 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
23272 \renewcommand*{\thesubparagraph}{%
23273 \theparagraph\@SepMark\@arabic\c@subparagraph
23274 }
23275 \expandafter\ifnum\scr@v@is@le{2.97d}%
23276 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
23277 \fi
23278 \expandafter\ifnum\scr@v@is@le{2.97d}%
23279 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
23280 \fi

```



```

23281 \renewcommand*\theequation{%
23282 \thechapter\@SepMark%
23283 \@arabic\c@equation
23284 }
23285 \renewenvironment{thebibliography}[1]{%
23286 \if@bib@break@
23287 \bib@beginhook
23288 \else
23289 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
23290 \setchapterpreamble{\bibpreamble}%
23291 \fi\fi
23292 \bib@heading
23293 \bib@beginhook
23294 \bib@before@hook
23295 \fi
23296 \renewcommand{\BreakBibliography}[1]{%
23297 \@bib@break
23298 \end{thebibliography}%
23299 \begingroup ##1\endgroup
23300 \begin{thebibliography}{#1}
23301 }%
23302 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
23303 \bidi@thebibliography@font@hook%
23304 \list{%
23305 \@biblabel{\@arabic\c@enumiv}%
23306 }{%
23307 \settowidth\labelwidth{\@biblabel{#1}}%
23308 \leftmargin\labelwidth
23309 \advance\leftmargin\labelsep
23310 \@openbib@code
23311 \if@bib@break@
23312 \edef\@tempa{%
23313 \noexpand\usecounter{enumiv}%
23314 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
23315 }\@tempa
23316 \no@bib@break
23317 \else
23318 \usecounter{enumiv}%
23319 \fi
23320 \let\p@enumiv\@empty
23321 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
23322 }%
23323 \sloppy\clubpenalty4000 \widowpenalty4000
23324 \sfcode`\.\=\@m
23325 }{%
23326 \if@bib@break@
23327 \def\@noitemerr{%
23328 \@latex@warning{%
23329 \string\BreakBibliography\space at begin of `thebibliography'
23330 environment\MessageBreak
23331 or following \string\BreakBibliography}%
23332 }%
23333 \else
23334 \def\@noitemerr{%

```



```

23335 \latex@warning{%
23336     Empty `thebibliography' environment or
23337     \string\BreakBibliography\MessageBreak
23338     before end of `thebibliography' environment}%
23339 }%
23340 \fi
23341 \endlist
23342 \if@bib@break@
23343 \else
23344     \bib@after@hook
23345     \let\bib@before@hook\@empty
23346     \let\bib@after@hook\@empty
23347 \fi
23348 \bib@endhook
23349 }
23350 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
23351 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
23352 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
23353 \renewcommand\marginline[1]{%
23354     \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
23355 }
23356 \renewcommand{\@@makecaption}[3]{%
23357     \cap@margin
23358     \begingroup
23359     \ifonelinecaptions
23360         \def\stepcounter##1{\advance\value{##1}\@ne}%
23361         \let\refstepcounter\stepcounter
23362         \let\label\@gobble
23363         \let\@footnotetext=\@gobble
23364         \let\@LTRfootnotetext=\@gobble
23365         \let\@RTLfootnotetext=\@gobble
23366         \let\hypertarget\@gobbletwo
23367         \edef\@xnewline{%
23368             \unexpanded{\ClassInfo{\KOMAClassName}}{%
23369                 Workaround for not recommended usage of \string\\ or\MessageBreak
23370                 \string\newline in caption text
23371             }%
23372             \hspace*{\linewidth}\hspace{1sp}%
23373         }%
23374         \unexpanded\expandafter{\@xnewline}%
23375     }%
23376     \edef\@xcentercr{%
23377         \unexpanded{\ClassInfo{\KOMAClassName}}{%
23378             Workaround for not recommended usage of \string\\ or\MessageBreak
23379             \string\newline in caption text
23380         }%
23381         \hspace*{\linewidth}\hspace{1sp}%
23382     }%
23383     \unexpanded\expandafter{\@xcentercr}%
23384 }%
23385 \settowidth{\@tempdima}{\scr@@makesinglelinecaption{#1}{#2}{#3}}%
23386 \ifdim\@tempdima>\cap@width
23387     \aftergroup\scr@makemultilinecaption
23388 \else

```



```

23389         \aftergroup\scr@makesinglelinecaption
23390         \fi
23391     \else
23392         \aftergroup\scr@makemultilinecaption
23393         \fi
23394     \endgroup
23395     {#1}{#2}{#3}%
23396 }
23397 \renewcommand{\scr@makesinglelinecaption}[3]{%
23398     {%
23399         \usefontofkomafont{caption}{%
23400             \hb@xt@{\hsize{%
23401                 \cap@left
23402                 \if@RTL
23403                     \beginR
23404                     \fi
23405                     \scr@makesinglelinecaption{#1}{#2}{#3}%
23406                     \if@RTL
23407                     \endR
23408                     \fi
23409                     \cap@right
23410                 }\par\kern\dp\strutbox%
23411             }%
23412         }\kern-\dp\strutbox
23413     }
23414 \renewcommand{\@makecaption}[2]{%
23415     \if@captionabove
23416         \vskip\belowcaptionskip
23417     \else
23418         \vskip\abovecaptionskip
23419     \fi
23420     \@makecaption\@firstofone{#1}{#2}%
23421     \if@captionabove
23422         \vskip\abovecaptionskip
23423     \else
23424         \vskip\belowcaptionskip
23425     \fi
23426 }
23427
23428 \renewcommand{\scr@makesinglelinecaption}[3]{%
23429     {\usekomafont{caption}{\strut\ignorespaces
23430         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
23431         \ignorespaces #3\unskip}}%
23432 }
23433
23434 \renewcommand{\scr@makemultilinecaption}[3]{%
23435     {%
23436         \usefontofkomafont{caption}{%
23437             \hb@xt@{\hsize{%
23438                 \cap@left
23439                 \vbox{\hsize\cap@width\linewidth\hsize
23440                     \scr@ifundefinedorrelax{@captive}{%
23441                         \ClassWarning{\KOMAClassName}{%
23442                             `\'string\'caption' outside float.\MessageBreak

```



```

23443      Seems you are using `\'string\'caption' outside a
23444      float.\MessageBreak
23445      Maybe you are using a package that uses
23446      `\'string\'@makecaption'\MessageBreak
23447      without setting `\'string\'@captype' before.\MessageBreak
23448      Because I cannot detect the caption type, I'm using\MessageBreak
23449      the empty one.%
23450    }%
23451    \let\@captype\@empty
23452  }{}%
23453  \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
23454    \@nameuse{ragged\@captype caption}%
23455  }%
23456  \ifdofullc@p
23457    \@hangfrom{%
23458      \strut
23459      \scr@smashdp{%
23460        #1{%
23461          \usekomafont{caption}{%
23462            \usekomafont{captionlabel}{#2\captionformat}%
23463          }%
23464        }%
23465      }%
23466    }%
23467    {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23468  \else
23469    \ifdim\cap@indent<\z@
23470      \strut
23471      #1{%
23472        {\usekomafont{caption}{%
23473          \usekomafont{captionlabel}{#2\captionformat}%
23474        }%
23475      }\par}%
23476      \noindent{{\usekomafont{caption}{%
23477        \hspace*{-\cap@indent}#3\scr@endstrut
23478      }}\par}%
23479    \else
23480      \if@capbreak
23481        \strut
23482        #1{%
23483          {\usekomafont{caption}{%
23484            \usekomafont{captionlabel}{#2\captionformat}%
23485          }%
23486        }\par}%
23487        \noindent\@hangfrom{\hspace*{-\cap@indent}}%
23488        {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23489      \else
23490        \@hangfrom{\scr@smashdp\strut\hspace*{-\cap@indent}}%
23491        {%
23492          \hspace{-\cap@indent}%
23493          \scr@smashdp{%
23494            #1{\usekomafont{caption}{%
23495              \usekomafont{captionlabel}{#2\captionformat}%
23496            }%

```





```

23497         }%
23498     }%
23499     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23500     }%
23501     \fi
23502     \fi
23503     \fi
23504     }%
23505     \cap@right
23506 } \par \kern \dp \strutbox
23507 }%
23508 } \kern - \dp \strutbox
23509 }
23510
23511
23512 \bidi@AfterFile{longtable-xetex-bidi.def}{%
23513   \if@komalongtable
23514     \renewcommand{\LT@makecaption}[3]{%
23515       \noalign{%
23516         \if@captionabove
23517           \vskip\belowcaptionskip
23518         \else
23519           \vskip\abovecaptionskip
23520         \fi
23521       }%
23522       \LT@mcol\LT@cols c{%
23523         \hbox to\z@{\hss\parbox[t]{\linewidth{%
23524           \def\@capytype{table}%
23525           \@makecaption{#1}{#2}{#3}%
23526           \endgraf
23527           \if@captionabove
23528             \vskip\abovecaptionskip
23529           \else
23530             \vskip\belowcaptionskip
23531           \fi
23532         }%
23533         \hss
23534       }%
23535     }%
23536   }%
23537   \renewcommand*{\scr@LT@array}{}%
23538   \let\scr@LT@array=\LT@array
23539   \renewcommand*{\LT@array}{%
23540     \let\scr@caption=\LT@caption
23541     \def\captionabove{\noalign{\global\@captionabovetrue}%
23542       \scr@caption}%
23543     \def\captionbelow{\noalign{\global\@captionabovetrue}%
23544       \scr@caption}%
23545     \if@tablecaptionabove
23546       \let\LT@caption=\captionabove
23547     \else
23548       \let\LT@caption=\captionbelow
23549     \fi
23550     \scr@LT@array

```



```

23551 }%
23552 \ClassInfo{\KOMAClassName}{%
23553     longtable captions redefined%
23554 }%
23555 \fi
23556 }
23557
23558 \CloneTOCEntryStyle{tocline}{part}
23559 \TOCEntryStyleStartInitCode{part}{%
23560     \expandafter\renewcommand%
23561     \csname scr@tso@#1@linefill\endcsname{\hfill}%
23562     \expandafter\renewcommand%
23563     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
23564     \expandafter\renewcommand%
23565     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23566         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
23567     \expandafter\renewcommand\expandafter*%
23568     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
23569 }
23570
23571 \CloneTOCEntryStyle{tocline}{chapter}
23572 \TOCEntryStyleStartInitCode{chapter}{%
23573     \expandafter\renewcommand%
23574     \csname scr@tso@#1@linefill\endcsname{%
23575         \if@chapterentrywithdots
23576             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
23577         \else
23578             \hfill
23579         \fi
23580     }%
23581     \expandafter\renewcommand%
23582     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
23583     \expandafter\renewcommand%
23584     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23585         {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
23586     \expandafter\renewcommand\expandafter*%
23587     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
23588 }
23589
23590 \CloneTOCEntryStyle{tocline}{section}
23591 \TOCEntryStyleStartInitCode{section}{%
23592     \expandafter\renewcommand%
23593     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23594     \expandafter\renewcommand%
23595     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23596         {\normalfont\normalcolor ##1}}%
23597 }
23598
23599 \CloneTOCEntryStyle{section}{default}
23600
23601 \DeclareSectionCommand[%
23602     style=chapter,%
23603     level=\z@,%
23604     pagestyle=plain,%

```



```

23605   tocstyle=chapter,%
23606   tocindent=\z@,%
23607   tocnumwidth=1.5em%
23608 ]{chapter}
23609 \DeclareSectionCommand[%
23610   style=section,%
23611   level=1,%
23612   indent=\z@,%
23613   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
23614   afterskip=2.3ex \@plus .2ex,%
23615   tocstyle=section,%
23616   tocindentfollows=chapter,%
23617   tocindent=1.5em,%
23618   tocnumwidth=2.3em%
23619 ]{section}
23620 \DeclareSectionCommand[%
23621   style=part,%
23622   level=\m@ne,%
23623   pagestyle=plain,%
23624   tocstyle=part,%
23625   toplevel=\m@ne,%
23626   tocindent=\z@,%
23627   tocnumwidth=2em%
23628 ]{part}
23629 \DeclareSectionCommand[%
23630   style=section,%
23631   level=2,%
23632   indent=\z@,%
23633   beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
23634   afterskip=1.5ex \@plus .2ex,%
23635   tocstyle=section,%
23636   tocindent=3.8em,%
23637   tocnumwidth=3.2em%
23638 ]{subsection}
23639 \DeclareSectionCommand[%
23640   style=section,%
23641   level=3,%
23642   indent=\z@,%
23643   beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
23644   afterskip=1.5ex \@plus .2ex,%
23645   tocstyle=section,%
23646   tocindent=7.0em,%
23647   tocnumwidth=4.1em%
23648 ]{subsubsection}
23649 \DeclareSectionCommand[%
23650   style=section,%
23651   level=4,%
23652   indent=\z@,%
23653   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
23654   afterskip=-1em,%
23655   tocindentfollows=subsubsection,%
23656   tocstyle=section,%
23657   tocindent=10em,%
23658   tocnumwidth=5em%

```



```

23659 ]{paragraph}
23660 \DeclareSectionCommand[%
23661   style=section,%
23662   level=5,%
23663   indent=\scr@parindent,%
23664   beforeskip=3.25ex \@plus1ex \@minus .2ex,%
23665   afterskip=-1em,%
23666   tocstyle=section,%
23667   tocindent=12em,%
23668   tocnumwidth=6em%
23669 ]{subparagraph}

```

## 144 File `sidecap-xetex-bidi.def`

```

23670 \ProvidesFile{sidecap-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for sidecap package f
23671 \RequirePackage{ragged2e}
23672 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
23673   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
23674 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi
23675 \renewcommand*{\SC@justify@caption}{\if@RTL%
23676 \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
23677   \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}
23678
23679 \@ifpackagewith{sidecap}{innercaption}{%
23680 \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
23681   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}
23682 \renewcommand*{\SC@justify@caption}{%
23683   \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else%
23684 \renewcommand*{\SC@FLOAT}[2]{%
23685   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}
23686 \renewcommand*{\SC@justify@caption}{%
23687   \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
23688 }{}
23689
23690 \@ifpackagewith{sidecap}{rightcaption}{%
23691 \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
23692 \def\SC@justify@caption{\RaggedLeft}\else%
23693 \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
23694 \def\SC@justify@caption{\RaggedRight}\fi%
23695 }{}
23696
23697 \@ifpackagewith{sidecap}{leftcaption}{%
23698 \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
23699 \def\SC@justify@caption{\RaggedRight}\else%
23700 \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
23701 \def\SC@justify@caption{\RaggedLeft}\fi%
23702 }{}

```

## 145 File `soul-xetex-bidi.def`

```

23703 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeT
23704 \long\def\SOUL@start#1{%
23705   \let\bidi@RTL@everypar\@empty
23706   \let\<\SOUL@lowerthan

```



```

23707 \let\>\empty
23708 \def\soulomit{\noexpand\soulomit}%
23709 \gdef\Soul@eventuallyexhyphen##1{%
23710 \let\Soul@soeventuallyskip\relax
23711 \Soul@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@@\font
23712 \@minus\fontdimen4\font
23713 \Soul@ignorespacesfalse
23714 \leavevmode
23715 \Soul@preamble
23716 \Soul@lasttoken={}%
23717 \Soul@word={}%
23718 \Soul@minus\z@
23719 \Soul@comma\z@
23720 \Soul@apo\z@
23721 \Soul@grave\z@
23722 \Soul@do{#1}%
23723 \Soul@postamble
23724 }}
23725 \def\Soul@ulunderline#1{%
23726 \setbox\z@\hbox{#1}%
23727 \dimen@=\wd\z@
23728 \dimen@i=\Soul@uloverlap
23729 \advance\dimen@2\dimen@i
23730 \if@RTL
23731 \unhcopy\z@
23732 \llap{%
23733 \null
23734 \kern-\dimen@i
23735 \Soul@ulcolor{\Soul@ulleaders\hskip\dimen@}%
23736 }%
23737 \else
23738 \rlap{%
23739 \null
23740 \kern-\dimen@i
23741 \Soul@ulcolor{\Soul@ulleaders\hskip\dimen@}%
23742 }%
23743 \unhcopy\z@
23744 \fi
23745 }}
23746 \def\bidi@Soul@ulleaders{%
23747 \leaders\hb@xt@0.1pt{\hss\Soul@ulcolor{\vrule\@depth\Soul@uldp\@height\Soul@ulht}\hss}\n
23748 }
23749 \def\Soul@uleveryspace#1{%
23750 \if@RTL
23751 #1%
23752 \bidi@Soul@ulleaders
23753 \hskip\spaceskip
23754 \else
23755 \Soul@ulcolor{%
23756 #1%
23757 \Soul@ulleaders
23758 \hskip\spaceskip
23759 }%
23760 \fi

```



```

23761 \null
23762 }

```

## 146 File stabular-xetex-bidi.def

```

23763 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
23764 \def\@stabular{%
23765   \leavevmode \bgroup \if@RTLtab\beginR \fi
23766   \let\@acol\@tabacol
23767   \let\@classz\@tabclassz
23768   \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
23769 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
23770   \egroup \if@RTLtab\endR\fi\egroup}
23771 \expandafter \let \csname endstabular*\endcsname = \endstabular
23772 \def\sarray[#1]#2{%
23773   \bgroup
23774   \setbox\@arstrutbox\hbox{%
23775     \vrule \@height\arraystretch\ht\strutbox
23776     \@depth\arraystretch \dp\strutbox
23777     \@width\z@}%
23778   \mkpream{#2}%
23779   \edef\@preamble{%
23780     \ialign \noexpand\@halignto
23781       \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
23782   \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23783   \let\@tabularnewline\%
23784   \let\@sharp##%
23785   \set@typeset@protect
23786   \lineskip\z@skip\baselineskip\z@skip
23787   \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
23788   \@preamble}

```

## 147 File subfigure-xetex-bidi.def

```

23789 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure package]
23790 \AtBeginDocument{%
23791   \let\p@subfigure=\thefigure
23792   \let\p@subtable=\thetable%
23793 }

```

## 148 File tabs-xetex-bidi.def

```

23794 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for XeTeX]
23795 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
23796
23797 \expandafter\let\csname endtabular*\endcsname=\endtabular
23798
23799 \def\endarray{\ifvmode\csname crr\endcsname % just do \crr if \ given
23800   \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
23801   \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
23802
23803 \def\@array[#1]#2{% remember global variables to allow recursion:
23804   \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
23805     \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%

```



```

23806 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
23807 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
23808 \else \let\@tarlinesep\tablinesep \fi
23809 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
23810 \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
23811 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
23812 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
23813   \def\@rememsize{\protect\@r@m@size}\let\@seesize\@s@size
23814   \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
23815 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
23816   \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
23817 \let\protect\noexpand
23818 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
23819 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
23820 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23821 \if#1t\top \else \if#1b\box \else \vcenter \fi\fi
23822 \bgroup \let\par\@empty
23823 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
23824 \advance\extrarulesep.5\arrayrulewidth
23825 \let\@sharp#\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
23826 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\top \else \box \fi\bgroup\fi
23827 \@preamble}

```

## 149 File tabularx-xetex-bidi.def

```

23828 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package]
23829 \def\TX@endtabularx{%
23830   \expandafter\expandafter\expandafter
23831     \TX@find@endtabularxa\csname end\TX@\endcsname
23832     \endtabularx\TX@\endtabularx\TX@find@endtabularxa
23833   \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}}%
23834   \let\verb\TX@verb
23835   \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
23836   \edef\TX@ckpt{\cl@ckpt}%
23837   \let\@elt\relax
23838   \TX@old@table\maxdimen
23839   \TX@col@width\TX@target
23840   \global\TX@cols\@ne
23841   \TX@typeout@
23842     {\spaces Table Width\@spaces Column Width\@spaces X Columns}%
23843   \TX@trial{\def\NC@rewrite@X{%
23844     \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
23845   \loop
23846     \TX@arith
23847     \ifTX@
23848     \TX@trial{%
23849   \repeat
23850   {\let\@footnotetext\TX@fnttext\let\@xfootnotenext\TX@xftntext
23851     \let\@LTRfootnotetext\TX@LTRfnttext\let\@xLTRfootnotenext\TX@xLTRfnttext
23852     \let\@RTLfootnotetext\TX@RTLfnttext\let\@xRTLfootnotenext\TX@xRTLfnttext
23853     \csname tabular*\expandafter\endcsname\expandafter\TX@target
23854       \the\toks@
23855     \csname endtabular*\endcsname}%
23856   \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn

```



```

23857 \ifnum0=`{\fi}%
23858 \expandafter\expandafter\expandafter
23859 \TX@find@endtabularxbb
23860 \expandafter\end\expandafter{\TX@}%
23861 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
23862 }
23863
23864 \def\TX@trial#1{%
23865 \setbox\@tempboxa\hbox{%
23866 #1\relax
23867 \let\@footnotetext\TX@trial@ftn
23868 \let\@LTRfootnotetext\TX@trial@ftn
23869 \let\@RTLfootnotetext\TX@trial@ftn
23870 \let\TX@vwarn\@empty
23871 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
23872 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
23873 \def\write{\begingroup
23874 \def\let{\afterassignment\endgroup\toks@}%
23875 \afterassignment\let\count@}%
23876 \hbadness\@M
23877 \hfuzz\maxdimen
23878 \let\hbadness\@tempcnta
23879 \let\hfuzz\@tempdima
23880 \expandafter\tabular\the\toks@
23881 \endtabular}%
23882 \TX@ckpt
23883 \TX@typeout@{\@spaces
23884 \expandafter\TX@align
23885 \the\wd\@tempboxa\space\space\space\space\space\@@
23886 \expandafter\TX@align
23887 \the\TX@col@width\space\space\space\space\space\@@
23888 \@spaces\the\TX@cols}}
23889
23890 \long\def\TX@LTRftntext#1{%
23891 \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
23892 [\the\csname c@\@mpfn\endcsname]}%
23893 \global\TX@ftn\expandafter{\@tempa{#1}}}%
23894 \long\def\TX@xLTRftntext[#1]#2{%
23895 \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
23896
23897 \long\def\TX@RTLftntext#1{%
23898 \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
23899 [\the\csname c@\@mpfn\endcsname]}%
23900 \global\TX@ftn\expandafter{\@tempa{#1}}}%
23901 \long\def\TX@xRTLftntext[#1]#2{%
23902 \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

## 150 File tabulary-xetex-bidi.def

```

23903 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
23904 \def\@testpach{\@chclass
23905 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
23906 \ifnum \@lastchclass=7 5 \else
23907 \ifnum \@lastchclass=8 \tw@ \else

```





```

23908 \ifnum \@lastchclass=9 \thr@@
23909 \else \z@
23910 \ifnum \@lastchclass = 10 \else
23911 \edef\@nextchar{\expandafter\string\@nextchar}%
23912 \@chnum
23913 \if \@nextchar c\z@ \else
23914 \if \@nextchar \if@RTTtab r\else l\fi\@ne \else
23915 \if \@nextchar \if@RTTtab l\else r\fi\tw@ \else
23916 \if \@nextchar C7 \else
23917 \if \@nextchar L8 \else
23918 \if \@nextchar R9 \else
23919 \if \@nextchar J10 \else
23920 \z@ \@chclass
23921 \if\@nextchar |\@ne \else
23922 \if \@nextchar !6 \else
23923 \if \@nextchar @7 \else
23924 \if \@nextchar <8 \else
23925 \if \@nextchar >9 \else
23926 10
23927 \@chnum
23928 \if \@nextchar m\thr@@\else
23929 \if \@nextchar p4 \else
23930 \if \@nextchar b5 \else
23931 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
23932 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi

```

```

23933 \ProvidesFile{tc-xetex-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver
23934 \def\@cliptoboxdim#1{%
23935     \setbox#1=\hbox{%
23936         \Gin@defaultbp\WIDTH{\wd#1}%
23937         \Gin@defaultbp\DEPTH{\dp#1}%
23938         \@tempdima\ht#1%
23939         \advance\@tempdima\dp#1%
23940         \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
23941         \beginL\special{pdf:bcontent }%
23942         \special{%
23943             pdf:literal direct
23944             0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
23945         }%
23946         \special{pdf:literal direct W }%
23947         \special{pdf:literal direct n }%
23948         \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
23949         \special{pdf:econtent }\endL%
23950     }%
23951 }

```

```

23952 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox packa
23953 \let\endtcbl@rbox=\endminipage
23954 \let\endtcbl@savebox=\endtcbl@rbox
23955

```

```

23956 \bidi@patchcmd{\tcb@vbox}{%
23957   \let\@footnotetext\@mpfootnotetext%
23958 }{%
23959   \let\@footnotetext\@mpfootnotetext%
23960   \let\@LTRfootnotetext\@mpLTRfootnotetext%
23961   \let\@RTLfootnotetext\@mpRTLfootnotetext%
23962 }{}{}
23963
23964 \bidi@patchcmd{\end tcb@vbox}{%
23965   \footnoterule%
23966 }{%
23967   \bidi@mpfootnoterule%
23968 }{}{}
23969 \bidi@apptocmd\tcb@@icolorbox{%
23970   \@bidi@list@minipage@parboxfalse
23971 }{}{}

```

## 153 File thmbox-xetex-bidi.def

```

23972 \ProvidesFile{thmbox-xetex-bidi.def}[2025/09/04 v0.1 bidi adaptations for thmbox package for
23973 \renewenvironment{thmbox}[2][]{%
23974   \parskip\z@%
23975   \setkeys{thmbox}{#1}%
23976   \ifx\thmbox@style S\else\ifx\thmbox@style M\else\ifx\thmbox@style L\else%
23977     \PackageWarning{thmbox}{\thmbox@style\ is not a valid style for
23978       \string\thmbox, using M}%
23979     \let\thmbox@style=M%
23980   \fi\fi\fi%
23981   \thmbox@head{{#2}}\nobreak\relax%
23982   \thmbox@dim=\hspace%
23983   \advance\thmbox@dim-\leftskip%
23984   \advance\thmbox@dim-\rightskip%
23985   \setbox\thmbox@box=\vbox\bgroup%
23986     \if@RTL
23987       \@hboxRconstructtrue
23988     \fi
23989     \hspace=\thmbox@dim%
23990     \advance\hspace -\thmbox@leftmargin%
23991     \advance\hspace -\thmbox@rightmargin%
23992     \textwidth=\hspace%
23993     \linewidth=\hspace%
23994     \vskip\thmbox@vskip%
23995     \begingroup\endgroup%
23996     \vskip\thmbox@vskip%
23997   \egroup%
23998   \thmbox@start%
23999   \ifx\thmbox@style S\else\thmbox@tail\fi%
24000   \@endparenv}

```

## 154 File titlesec-xetex-bidi.def

```

24001 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package
24002 \renewcommand\filright{%
24003   \gdef\ttl@filleft##1{\hspace##1}%

```



```

24004 \gdef\ttl@filright##1{\hfill}%
24005 \let\\\@centercr
24006 \advance\rightskip\z@ \@plus 1fil
24007 \parfillskip\z@}
24008 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
24009 \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
24010 \setlength\leftskip{#6}%
24011 \setlength\rightskip{#7}%
24012 \interlinepenalty\@M
24013 \ttl@change@centercr
24014 \ttl@beginlongest
24015 #1{\ifhmode\ttl@hmode@error\fi
24016 \ttl@glcmds
24017 \parindent\z@
24018 \leavevmode
24019 \begin@group
24020 \ifttl@label
24021 \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
24022 \ifRTL\advance\rightskip\wd\z@else\advance\leftskip\wd\z@\fi
24023 \llap{\box\z@}%
24024 \fi
24025 #4{#8}%
24026 \kern\z@\strut\@par
24027 \end@group
24028 \nobreak\ttl@midlongest#5\@par}%
24029 \ttl@endlongest}

```

## 155 File titletoc-xetex-bidi.def

```

24030 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
24031 \renewcommand\filright{%
24032 \gdef\ttl@filleft##1{\hskip##1}%
24033 \gdef\ttl@filright##1{\hfill}%
24034 \let\\\@centercr
24035 \advance\rightskip\z@ \@plus 1fil
24036 \parfillskip\z@}
24037 \renewcommand\contentspush[1]{%
24038 \sbox\z@{#1}%
24039 \xdef\ttl@b{\advance\ifRTL\rightskip\else\leftskip\fi\the\wd\z@}%
24040 \aftergroup\ttl@b
24041 \leavevmode\llap{\box\z@}}
24042 \def\ttl@outnblock#1#2#3{%
24043 \begin@group
24044 \ifnum\ttl@b>\ttl@a
24045 \nobreak
24046 \else\ifnum\ttl@b<\ttl@a
24047 \addpenalty{\@secpenalty}%
24048 \else
24049 \addpenalty{\z@}%
24050 \fi\fi
24051 \ttl@contentsstretch
24052 \nobreak
24053 \ifcase#1\relax\else\interlinepenalty\@M\fi
24054 \parindent\z@}

```



```

24055 \ifx\@nil#2%
24056   \PackageError{titletoc}{Unimplemented}%
24057   {The optional argument is currently mandatory}%
24058 \else
24059   \if@RTL\setlength\rightskip{#2}\else
24060   \setlength\leftskip{#2}\fi%
24061 \fi
24062 \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
24063 \let\contentsmargin\ttl@margin
24064 \def\ttl@makeline##1{##1}%
24065 #3%
24066 \addtolength{\parfillskip}{-\ttl@corr}%
24067 \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
24068 \let\ttl@leaders\leaders}
24069 \renewcommand\ttl@margin[2][\z@]{%
24070   \def\ttl@corr{#1}%
24071   \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
24072   \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
24073   \def\@pnumwidth{#2}}
24074 \let\ttl@savel@part\l@part
24075 \def\l@part{\ttl@lselect{part}}
24076
24077 \let\ttl@savel@chapter\l@chapter
24078 \def\l@chapter{\ttl@lselect{chapter}}

```

## 156 File tocbibind-xetex-bidi.def

```

24079 \ProvidesFile{tocbibind-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for tocbibind packa
24080 \IfClassLoadedT{memoir}{\endinput}
24081 \if@dotocbib
24082   \ApplyPatchIfPackageLoadedF{natbib}{% natbib not loaded
24083     \renewcommand{\bibsection}{\tcb@bchapsec}
24084     \renewenvironment{thebibliography}[1]{%
24085       \bibsection
24086       \begin{thebibitemlist}{#1}{\end{thebibitemlist}}}
24087   \renewenvironment{thebibitemlist}[1]{
24088     \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
24089     \bidi@thebibliography@font@hook%
24090     \list{\@biblabel{\@arabic{c@enumiv}}}%
24091       {\settowidth\labelwidth{\@biblabel{#1}}%
24092        \leftmargin\labelwidth
24093        \advance\leftmargin\labelsep
24094        \@openbib@code
24095        \usecounter{enumiv}%
24096        \let\p@enumiv\empty
24097        \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
24098     \sloppy
24099     \clubpenalty4000
24100     \@clubpenalty \clubpenalty
24101     \widowpenalty4000%
24102     \sfcode`\.\@m}
24103   {\def\@noitemerr
24104     {\@latex@warning{Empty `thebibliography' environment}}}%
24105   \endlist}

```



```

24106
24107 \ApplyPatchCodeToPackage{chapterbib}{%
24108   \@ifpackagewith{chapterbib}{sectionbib}%
24109     {\renewcommand{\sectionbib}[2]{}}%
24110   }%
24111 }
24112
24113 \fi
24114 \if@inltxdoc\else
24115   \renewenvironment{theindex}%
24116     {\if@twocolumn
24117       \@restonecolfalse
24118     \else
24119       \@restonecoltrue
24120     \fi
24121     \if@bibchapter
24122       \if@donumindex
24123         \refstepcounter{chapter}
24124         \twocolumn[\vspace*{2\topskip}%
24125           \@makechapterhead{\indexname}]]%
24126         \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
24127         \chaptermark{\indexname}
24128       \else
24129         \if@dotocind
24130           \twocolumn[\vspace*{2\topskip}%
24131             \@makeschapterhead{\indexname}]]%
24132           \prw@mkboth{\indexname}
24133           \addcontentsline{toc}{chapter}{\indexname}
24134         \else
24135           \twocolumn[\vspace*{2\topskip}%
24136             \@makeschapterhead{\indexname}]]%
24137           \prw@mkboth{\indexname}
24138         \fi
24139       \fi
24140     \else
24141       \if@donumindex
24142         \twocolumn[\vspace*{-1.5\topskip}%
24143           \@nameuse{\@tocextra}{\indexname}]]%
24144         \csname \@tocextra mark\endcsname{\indexname}
24145       \else
24146         \if@dotocind
24147           \twocolumn[\vspace*{-1.5\topskip}%
24148             \toc@headstar{\@tocextra}{\indexname}]]%
24149           \prw@mkboth{\indexname}
24150           \addcontentsline{toc}{\@tocextra}{\indexname}
24151         \else
24152           \twocolumn[\vspace*{-1.5\topskip}%
24153             \toc@headstar{\@tocextra}{\indexname}]]%
24154           \prw@mkboth{\indexname}
24155         \fi
24156       \fi
24157     \fi
24158   \thispagestyle{plain}\parindent\z@
24159   \parskip\z@ \@plus .3\p@\relax

```



```

24160 \let\item\@idxitem}
24161 {\if@restonecol\onecolumn\else\clearpage\fi}
24162 \fi

```

## 157 File tocloft-xetex-bidi.def

```

24163 \ProvidesFile{tocloft-xetex-bidi.def}[2025/01/03 v0.4 bidi adaptations for tocloft package f
24164 \IfClassLoadedT{memoir}{\endinput}
24165 \renewcommand{\cftpnumalign}{\if@RTL l\else r\fi}
24166 \let\cftdot\@SepMark
24167 \if@cfthaspart
24168 \renewcommand*{\l@part}[2]{
24169   \@cftdopartfalse
24170   \ifnum \c@tocdepth >-2\relax
24171     \if@cfthaschapter
24172       \@cftdoparttrue
24173     \fi
24174     \ifnum \c@tocdepth >\m@ne
24175       \if@cfthaschapter\else
24176         \@cftdoparttrue
24177       \fi
24178     \fi
24179   \fi
24180   \if@cftdopart
24181     \if@cfthaschapter
24182       \addpenalty{-\@highpenalty}
24183     \else
24184       \addpenalty\@secpenalty
24185     \fi
24186     \addvspace{\cftbeforepartskip}
24187     \begingroup
24188     {\if@RTL\rightskip\else\leftskip\fi \cftpartincent\relax
24189     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24190     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24191     \parindent \cftpartincent\relax\@afterindenttrue
24192     \interlinepenalty\@M
24193     \leavevmode
24194     \@tempdima \cftpartinnumwidth\relax
24195     \let\@cftbsnum \cftpartinpresnum
24196     \let\@cftasnum \cftpartinftersnum
24197     \let\@cftasnumb \cftpartinftersnumb
24198     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
24199     {\cftpartinfont \cftpartinpresnum #1}
24200     \cftpartinfillnum{#2}}
24201   \nobreak
24202   \if@cfthaschapter
24203     \global\@nobreaktrue
24204     \everypar{\global\@nobreakfalse\everypar{}}
24205   \else
24206     \if@compatibility
24207       \global\@nobreaktrue
24208       \everypar{\global\@nobreakfalse\everypar{}}
24209     \fi
24210   \fi

```



```

24211 \endgroup
24212 \fi}
24213 \fi
24214 \if@cfthaschapter
24215 \renewcommand*{\l@chapter}[2]{
24216 \ifnum \c@tocdepth >\m@ne
24217 \addpenalty{-\@highpenalty}
24218 \vskip \cftbeforechapskip
24219 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
24220 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24221 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24222 \parindent \cftchapindent\relax\@afterindenttrue
24223 \interlinepenalty\@M
24224 \leavevmode
24225 \@tempdima \cftchapnumwidth\relax
24226 \let\@cftbsnum \cftchappresnum
24227 \let\@cftasnum \cftchapaftersnum
24228 \let\@cftasnumb \cftchapaftersnumb
24229 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24230 {\cftchapfont #1}\nobreak
24231 \cftchapfillnum{#2}}
24232 \fi}
24233 \fi
24234 \renewcommand*{\l@section}[2]{%
24235 \ifnum \c@tocdepth >\z@
24236 \if@cfthaschapter
24237 \vskip \cftbeforesecskip
24238 \else
24239 \addpenalty\@secpenalty
24240 \addvspace{\cftbeforesecskip}
24241 \fi
24242 {\if@RTL\righskip\else\leftskip\fi \cftsecindent\relax
24243 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24244 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24245 \parindent \cftsecindent\relax\@afterindenttrue
24246 \interlinepenalty\@M
24247 \leavevmode
24248 \@tempdima \cftsecnumwidth\relax
24249 \let\@cftbsnum \cftsecpresnum
24250 \let\@cftasnum \cftsecaftersnum
24251 \let\@cftasnumb \cftsecaftersnumb
24252 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24253 {\cftsecfont #1}\nobreak
24254 \cftsecfillnum{#2}}
24255 \fi}
24256 \renewcommand*{\l@subsection}[2]{%
24257 \ifnum \c@tocdepth >\@ne
24258 \vskip \cftbeforesubsecskip
24259 {\if@RTL\righskip\else\leftskip\fi \cftsubsecindent\relax
24260 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24261 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24262 \parindent \cftsubsecindent\relax\@afterindenttrue
24263 \interlinepenalty\@M
24264 \leavevmode

```



```

24265 \@tempdima \cftsubsecnumwidth\relax
24266 \let\@cftbsnum \cftsubsecpresnum
24267 \let\@cftasnum \cftsubsecaftersnum
24268 \let\@cftasnumb \cftsubsecaftersnumb
24269 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24270 {\cftsubsecfont #1}\nobreak
24271 \cftsubsecfillnum{#2}}
24272 \fi}
24273 \renewcommand*{\l@subsubsection}[2]{%
24274 \ifnum \c@tocdepth >\tw@
24275 \vskip \cftbeforesubsubsecskip
24276 {\if@RTL\rightskip\else\leftskip\fi \cftsubsubsecindent\relax
24277 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24278 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24279 \parindent \cftsubsubsecindent\relax\@afterindenttrue
24280 \interlinepenalty\@M
24281 \leavevmode
24282 \@tempdima \cftsubsubsecnumwidth\relax
24283 \let\@cftbsnum \cftsubsubsecpresnum
24284 \let\@cftasnum \cftsubsubsecaftersnum
24285 \let\@cftasnumb \cftsubsubsecaftersnumb
24286 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24287 {\cftsubsubsecfont #1}\nobreak
24288 \cftsubsubsecfillnum{#2}}
24289 \fi}
24290 \renewcommand*{\l@paragraph}[2]{%
24291 \ifnum \c@tocdepth >3\relax
24292 \vskip \cftbeforeparaskip
24293 {\if@RTL\rightskip\else\leftskip\fi \cftparaindent\relax
24294 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24295 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24296 \parindent \cftparaindent\relax\@afterindenttrue
24297 \interlinepenalty\@M
24298 \leavevmode
24299 \@tempdima \cftparanumwidth\relax
24300 \let\@cftbsnum \cftparapresnum
24301 \let\@cftasnum \cftparaaftersnum
24302 \let\@cftasnumb \cftparaaftersnumb
24303 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24304 {\cftparafont #1}\nobreak
24305 \cftparafillnum{#2}}
24306 \fi}
24307 \renewcommand*{\l@subparagraph}[2]{%
24308 \ifnum \c@tocdepth >4\relax
24309 \vskip \cftbeforesubparaskip
24310 {\if@RTL\rightskip\else\leftskip\fi \cftsubparaindent\relax
24311 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24312 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24313 \parindent \cftsubparaindent\relax\@afterindenttrue
24314 \interlinepenalty\@M
24315 \leavevmode
24316 \@tempdima \cftsubparanumwidth\relax
24317 \let\@cftbsnum \cftsubparapresnum
24318 \let\@cftasnum \cftsubparaaftersnum

```





```

24319 \let\@cftasnumb \cftsubparaaftersnumb
24320 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24321 {\cftsubparafont #1}\nobreak
24322 \cftsubparafillnum{#2}}
24323 \fi}
24324 \renewcommand*{\l@figure}[2]{%
24325 \ifnum \c@lofdepth >\z@
24326 \vskip \cftbeforefigskip
24327 {\if@RTL\rightskip\else\leftskip\fi \cftfigindent\relax
24328 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24329 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24330 \parindent \cftfigindent\relax\@afterindenttrue
24331 \interlinepenalty\@M
24332 \leavevmode
24333 \@tempdima \cftfignumwidth\relax
24334 \let\@cftbsnum \cftfigpresnum
24335 \let\@cftasnum \cftfigaftersnum
24336 \let\@cftasnumb \cftfigaftersnumb
24337 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24338 {\cftfigfont #1}\nobreak
24339 \cftfigfillnum{#2}}
24340 \fi
24341 }
24342 \renewcommand*{\l@table}[2]{%
24343 \ifnum\c@lotdepth >\z@
24344 \vskip \cftbeforetabskip
24345 {\if@RTL\rightskip\else\leftskip\fi \cfttabindent\relax
24346 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24347 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24348 \parindent \cfttabindent\relax\@afterindenttrue
24349 \interlinepenalty\@M
24350 \leavevmode
24351 \@tempdima \cfttabnumwidth\relax
24352 \let\@cftbsnum \cfttabpresnum
24353 \let\@cftasnum \cfttabaftersnum
24354 \let\@cftasnumb \cfttabaftersnumb
24355 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24356 {\cfttabfont #1}\nobreak
24357 \cfttabfillnum{#2}}
24358 \fi
24359 }
24360 \renewcommand{\@cftl@subfig}{
24361 \renewcommand*{\l@subfigure}[2]{%
24362 \ifnum \c@lofdepth > \toclevel@subfigure
24363 \vskip \cftbeforesubfigskip
24364 {\if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
24365 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24366 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24367 \parindent \cftsubfigindent\relax\@afterindenttrue
24368 \interlinepenalty\@M
24369 \leavevmode
24370 \@tempdima \cftsubfignumwidth\relax
24371 \let\@cftbsnum \cftsubfigpresnum
24372 \let\@cftasnum \cftsubfigaftersnum

```



```

24373 \let\@cftasnumb \cftsubfigaftersnumb
24374 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24375 {\cftsubfigfont ##1}\nobreak
24376 \cftsubfigfillnum{##2}}
24377 \fi
24378 }
24379 }
24380 \renewcommand{\@cftl@subtab}{
24381 \renewcommand*{\l@subtable}[2]{%
24382 \ifnum \c@lotdepth > \toclevel@subtable
24383 \vskip \cftbeforesubtabskip
24384 {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
24385 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24386 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24387 \parindent \cftsubtabindent\relax\@afterindenttrue
24388 \interlinepenalty\@M
24389 \leavevmode
24390 \@tempdima \cftsubtabnumwidth\relax
24391 \let\@cftbsnum \cftsubtabpresnum
24392 \let\@cftasnum \cftsubtabaftersnum
24393 \let\@cftasnumb \cftsubtabaftersnumb
24394 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24395 {\cftsubtabfont ##1}\nobreak
24396 \cftsubtabfillnum{##2}}
24397 \fi
24398 }
24399 }
24400 \renewcommand{\newlistentry}[4][\@empty]{%
24401 \ifundefined{c@#2}{% check & set the counter
24402 \ifx \@empty#1\relax
24403 \newcounter{#2}
24404 \else
24405 \ifundefined{c@#1}{\PackageWarning{tocloft}%
24406 {#1 has no counter for use as a `within'}
24407 \newcounter{#2}}%
24408 {\newcounter{#2}[#1}%
24409 \expandafter\edef\csname the#2\endcsname{%
24410 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
24411 \fi
24412 \setcounter{#2}{0}
24413 }
24414 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
24415
24416 \@namedef{l@#2}##1##2{%
24417 \ifnum \@nameuse{c@#3depth} > #4\relax
24418 \vskip \@nameuse{cftbefore#2skip}
24419 {\if@RTL\rightskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
24420 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24421 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24422 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
24423 \interlinepenalty\@M
24424 \leavevmode
24425 \@tempdima \@nameuse{cft#2numwidth}\relax
24426 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname

```



```

24427 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
24428 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
24429 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\if@RTL\righ
24430 {\@nameuse{cft#2font}##1}\nobreak
24431 \@nameuse{cft#2fillnum}{##2}}
24432 \fi
24433 } % end of \l@#2
24434
24435 \expandafter\newlength\csname cftbefore#2skip\endcsname
24436 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
24437 \expandafter\newlength\csname cft#2indent\endcsname
24438 \expandafter\newlength\csname cft#2numwidth\endcsname
24439 \ifcase #4\relax % 0
24440 \setlength{\@nameuse{cft#2indent}}{0em}
24441 \setlength{\@nameuse{cft#2numwidth}}{1.5em}
24442 \or % 1
24443 \setlength{\@nameuse{cft#2indent}}{1.5em}
24444 \setlength{\@nameuse{cft#2numwidth}}{2.3em}
24445 \or % 2
24446 \setlength{\@nameuse{cft#2indent}}{3.8em}
24447 \setlength{\@nameuse{cft#2numwidth}}{3.2em}
24448 \or % 3
24449 \setlength{\@nameuse{cft#2indent}}{7.0em}
24450 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
24451 \else % anything else
24452 \setlength{\@nameuse{cft#2indent}}{10.0em}
24453 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
24454 \fi
24455 \@namedef{cft#2font}{\normalfont}
24456 \@namedef{cft#2presnum}{\}
24457 \@namedef{cft#2aftersnum}{\}
24458 \@namedef{cft#2aftersnumb}{\}
24459 \@namedef{cft#2dotsep}{\cftdotsep}
24460 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
24461 \@namedef{cft#2pagefont}{\normalfont}
24462 \@namedef{cft#2afterpnum}{\}
24463 \@namedef{toclevel@#2}{#4}
24464 \@namedef{cft#2fillnum}##1{%
24465 {\@nameuse{cft#2leader}}\nobreak
24466 \hb@xt@\@pnumwidth{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
24467 } % end \newlistentry
24468 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
24469 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
24470 \advance\if@RTL\righskip\else\leftskip\fi \cftchapnumwidth\relax
24471 \if@RTL\leftskip\else\righskip\fi \tocrmarg\relax
24472 \textit{#1}\protect\par}}}

```

## 158 File tocbasic-xetex-bidi.def

```

24473 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
24474 \bidi@undef\scr@dte@def@l@undottedtocline
24475 \bidi@undef\scr@dte@undottedtocline@init
24476 \DeclareTOCEntryStyle{undottedtocline}[{%
24477 \DefineTOCEntryLengthOption{indent}%

```



```

24478 {scr@tso@}{@indent}{entry indent}%
24479 \DefineTOCEntryLengthOption{numwidth}%
24480 {scr@tso@}{@numwidth}{entry number width}%
24481 \@ifundefined{#1tocdepth}{%
24482 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24483 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24484 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24485 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24486 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24487 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24488 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24489 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24490 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24491 \expandafter\let\csname #1tocdepth\expandafter\endcsname
24492 \csname #1numdepth\endcsname
24493 }%
24494 }%
24495 }%
24496 }%
24497 }%
24498 }%
24499 }%
24500 }%
24501 }%
24502 }{}%
24503 \@ifundefined{scr@tso@#1@indent}{%
24504 \ifundefined{scr@#1@tocindent}{%
24505 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24506 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24507 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24508 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24509 \scr@ifundefinedorrelax{l@chapter}{%
24510 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{Opt}}{%
24511 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24512 \Ifstr{#1}{subsubsection}{%
24513 \@namedef{scr@tso@#1@indent}{3.8em}%
24514 }{%
24515 \Ifstr{#1}{paragraph}{%
24516 \@namedef{scr@tso@#1@indent}{7em}%
24517 }{%
24518 \Ifstr{#1}{subparagraph}{%
24519 \@namedef{scr@tso@#1@indent}{10em}%
24520 }{%
24521 }%
24522 }%
24523 }%
24524 }%
24525 }%
24526 }{}%
24527 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24528 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24529 \Ifstr{#1}{subsubsection}{%
24530 \@namedef{scr@tso@#1@indent}{7.0em}%
24531 }{}%

```



```

24532         \Ifstr{#1}{paragraph}{%
24533             \@namedef{scr@tso@#1@indent}{10em}%
24534         }{%
24535             \Ifstr{#1}{subparagraph}{%
24536                 \@namedef{scr@tso@#1@indent}{12em}%
24537             }{%
24538                 }%
24539             }%
24540         }%
24541     }%
24542 }%
24543 }%
24544 }%
24545 }%
24546 }%
24547 }%
24548 }{%
24549     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24550 }%
24551 }{%}%
24552 \@ifundefined{scr@tso@#1@numwidth}{%
24553     \@ifundefined{scr@#1@tocnumwidth}{%
24554         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24555             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24556                 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24557                     \scr@ifundefinedorrelax{chapter}{%
24558                         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24559                             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24560                                 \Ifstr{#1}{subsubsection}{%
24561                                     \@namedef{scr@tso@#1@numwidth}{3.2em}%
24562                                 }{%
24563                                     \Ifstr{#1}{paragraph}{%
24564                                         \@namedef{scr@tso@#1@numwidth}{4.1em}%
24565                                     }{%
24566                                         \Ifstr{#1}{subparagraph}{%
24567                                             \@namedef{scr@tso@#1@numwidth}{5em}%
24568                                         }{%
24569                                             }%
24570                                         }%
24571                                     }%
24572                                 }%
24573                             }%
24574                         }{%
24575                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24576                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
24577                                     \Ifstr{#1}{subsubsection}{%
24578                                         \@namedef{scr@tso@#1@numwidth}{3.1em}%
24579                                     }{%
24580                                         \Ifstr{#1}{paragraph}{%
24581                                             \@namedef{scr@tso@#1@numwidth}{5em}%
24582                                         }{%
24583                                             \Ifstr{#1}{subparagraph}{%
24584                                                 \@namedef{scr@tso@#1@numwidth}{6em}%
24585                                             }{%

```



```

24586         }%
24587     }%
24588 }%
24589 }%
24590 }%
24591 }%
24592 }%
24593 }%
24594 }%
24595 }{%
24596 \namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
24597 }%
24598 }{%}%
24599 }]{%
24600 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24601 \ifnum \@nameuse{#1tocdepth}<\@ne
24602 \scr@ifundefinedorrelax{chapter}{%
24603 \addpenalty\@secpenalty
24604 \addvspace{1.0em \@plus\p@}%
24605 }{%
24606 \addpenalty{-\@highpenalty}%
24607 \vskip 1.0em \@plus\p@
24608 }%
24609 \else
24610 \addpenalty\@secpenalty
24611 \addvspace{1.0em \@plus\p@}%
24612 \fi
24613 \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
24614 \begingroup
24615 \parindent \z@ \bidi@rightskip \@pnumwidth
24616 \parfillskip -\@pnumwidth
24617 \leavevmode
24618 \bfseries
24619 \advance\bidi@leftskip\@tempdima
24620 \IfTocFeature{\@currentx}{noindent}{%
24621 \hskip -\bidi@leftskip
24622 }{%
24623 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24624 \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
24625 }%
24626 ##1%
24627 \nobreak
24628 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24629 \par
24630 \penalty\@highpenalty
24631 \endgroup
24632 \fi
24633 }
24634
24635 \bidi@undef\scr@dte@def@l@largetocline
24636 \bidi@undef\scr@dte@largetocline@init
24637 \DeclareTOCEntryStyle{largetocline}[{%
24638 \DefineTOCEntryLengthOption{indent}%
24639 {scr@tso@}{@indent}{entry indent}%

```



```

24640 \@ifundefined{#1tocdepth}{%
24641   \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24642     \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24643       \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24644         \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24645           \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24646             \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24647               \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24648                 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24649                   \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24650                     \expandafter\let\csname #1tocdepth\expandafter\endcsname
24651                     \csname #1numdepth\endcsname
24652                   }%
24653                 }%
24654               }%
24655             }%
24656           }%
24657         }%
24658       }%
24659     }%
24660   }%
24661 }{}%
24662 \@ifundefined{scr@tso@#1@indent}{%
24663   \@ifundefined{scr@#1@tocindent}{%
24664     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24665       \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24666         \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24667           \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24668             \scr@ifundefinedorrelax{1@chapter}{%
24669               \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
24670                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24671                   \Ifstr{#1}{subsubsection}{%
24672                     \@namedef{scr@tso@#1@indent}{3.8em}%
24673                   }{%
24674                     \Ifstr{#1}{paragraph}{%
24675                       \@namedef{scr@tso@#1@indent}{7em}%
24676                     }{%
24677                       \Ifstr{#1}{subparagraph}{%
24678                         \@namedef{scr@tso@#1@indent}{10em}%
24679                       }{%
24680                         }%
24681                       }%
24682                     }%
24683                   }%
24684                 }%
24685               }{%
24686                 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24687                   \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24688                     \Ifstr{#1}{subsubsection}{%
24689                       \@namedef{scr@tso@#1@indent}{7.0em}%
24690                     }{%
24691                       \Ifstr{#1}{paragraph}{%
24692                         \@namedef{scr@tso@#1@indent}{10em}%
24693                       }{%

```



```

24694 \Ifstr{#1}{subparagraph}{%
24695 \@namedef{scr@tso@#1@indent}{12em}%
24696 }{%
24697 }%
24698 }%
24699 }%
24700 }%
24701 }%
24702 }%
24703 }%
24704 }%
24705 }%
24706 }%
24707 }{%
24708 \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24709 }%
24710 }{}%
24711 }}{%
24712 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24713 \ifnum \@nameuse{#1tocdepth}<\@ne
24714 \scr@ifundefinedorrelax{chapter}{%
24715 \addpenalty\@secpenalty
24716 \addvspace{2.25em \@plus\p@}%
24717 }{%
24718 \addpenalty{-\@highpenalty}%
24719 \addvspace{2.25em \@plus\p@}%
24720 }%
24721 \else
24722 \addpenalty\@secpenalty
24723 \addvspace{2.25em \@plus\p@}%
24724 \fi
24725 \setlength\@tempdima{3em}%
24726 \begingroup
24727 \parindent \z@ \bidi@rightskip \@pnumwidth
24728 \parfillskip -\@pnumwidth
24729 \leavevmode
24730 \large
24731 \bfseries
24732 \Iftocfeature{\@currentx}{noindent}{%
24733 }{%
24734 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24735 }%
24736 ##1%
24737 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24738 \par
24739 \nobreak
24740 \ifnum 0=
24741 \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
24742 \global\@nobreaktrue
24743 \everypar{\global\@nobreakfalse\everypar{}}%
24744 \fi
24745 \endgroup
24746 \fi
24747 }

```





```

24748
24749 \renewcommand*{\scr@dte@tocline}[3]{%
24750   \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
24751   \else
24752     \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
24753     \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
24754     \@nameuse{Ifscr@tso@#1@dynindent}{%
24755       \expandafter\ifx\csname scr@tso@#1@indentfollows\endcsname\@empty
24756       \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
24757     \else
24758       \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
24759       \@for \reserved@a:=\reserved@a\do {%
24760         \scr@trim@spaces\reserved@a
24761         \ifx\reserved@a\@empty\else
24762           \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
24763             }{%
24764               \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
24765                 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
24766                 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
24767                   \scr@ifundefinedorrelax
24768                     {scr@dte@\reserved@a @lastmaxnumwidth}{%
24769                       \advance\@tempdima
24770                       \@nameuse{scr@tso@\reserved@a @numwidth}\relax
24771                     }{%
24772                       \advance\@tempdima
24773                       \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
24774                     }%
24775                   }{%
24776                     \advance\@tempdima
24777                     \@nameuse{scr@tso@\reserved@a @numwidth}\relax
24778                   }%
24779                 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
24780                 \expandafter\edef\csname scr@tso@#1@indent\endcsname
24781                   {\the\@tempdima}%
24782                 \fi
24783               \fi
24784             }%
24785           \fi
24786         }%
24787       \fi
24788     }{}%
24789   {%
24790     \Iftocfeature{\@currentx}{noindent}{%
24791       \bidi@leftskip \z@
24792     }{%
24793       \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
24794     }%
24795     \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
24796     \parfillskip -\bidi@rightskip
24797     \@nameuse{Ifscr@tso@#1@raggedpage}{%
24798       \addtolength{\parfillskip}{\z@ \@plus 1fil}%
24799     }{}%
24800     \Iftocfeature{\@currentx}{noindent}{%
24801       \parindent \z@

```



```

24802 }{%
24803   \parindent \@nameuse{scr@tso@#1@indent}\relax
24804 }%
24805 \@afterindenttrue
24806 \interlinepenalty\@M
24807 \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
24808   \addtolength\@bidi@rightskip\@flushglue
24809 \else
24810   \def\reserved@a{\raggedright}%
24811   \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24812     \addtolength\@bidi@rightskip\@flushglue
24813   \else
24814     \renewcommand\reserved@a{\raggedright}%
24815     \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24816       \addtolength\@bidi@rightskip\@flushglue
24817     \fi
24818   \fi
24819 \fi
24820 \leavevmode
24821 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
24822 \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
24823   \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{-%
24824     \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
24825       \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
24826     \fi
24827   }%
24828 }{%
24829 \advance\@bidi@leftskip \@tempdima
24830 \null\nobreak\hskip -\@bidi@leftskip
24831 {%
24832   \usetocbasicnumberline
24833   \let\scr@dte@numberline@box\numberline@box
24834   \def\numberline@box##1{%
24835     \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24836     \global\scr@dte@tocline@numberwidth
24837     \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
24838     \relax
24839     \ifdim \scr@dte@tocline@numberwidth
24840       >\@nameuse{scr@dte@#1@maxnumwidth}\relax
24841     \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
24842   \fi
24843   \@nameuse{Ifscr@tso@#1@dynnumwidth}{-%
24844     \ifdim \scr@dte@tocline@numberwidth
24845       >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
24846         +\@nameuse{scr@tso@#1@numsep}\relax\relax
24847     \PackageWarning{tocbasic}{%
24848       number width of #1 toc entries should be
24849       increased!\MessageBreak
24850       Currently used number width =
24851       \the\wd\scr@dte@tocline@numbox,\MessageBreak
24852       Wanted number separation
24853       \space\space\space =
24854       \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
24855       Reserved number width \space\space\space\space\space\space =

```



```

24856         \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
24857     }%
24858     \fi
24859 }%
24860 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24861 \@nameuse{Ifscr@tso@#1@breakafternumber}{%
24862     {\parfillskip\@flushglue\par}\nobreak\hskip-\bidi@leftskip
24863 }{}%
24864 }%
24865 {\@nameuse{scr@tso@#1@entryformat}{%
24866     #2%
24867     \nobreak
24868     {%
24869         \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}}%
24870     \nobreak
24871     \expandafter\let\expandafter\scr@dte@pagenumberwidth
24872     \csname scr@tso@#1@pagenumberwidth\endcsname
24873     \@nameuse{scr@tso@#1@pagenumberbox}{%
24874         \@nameuse{scr@tso@#1@pagenumberformat}{#3}%
24875     }%
24876 }%
24877 }}\@par
24878 }%
24879 }%
24880 \tocbasic@SetPenaltyByTOCLevel{#1}%
24881 \fi
24882 }
24883
24884
24885 \bidi@undef\scr@dte@def@l@tocline
24886 \bidi@undef\scr@dte@tocline@init
24887 \DeclareTOCEntryStyle{tocline}[{%
24888     \DefineTOCEntryLengthOption{beforeskip}%
24889     {scr@tso@}{@beforeskip}{vertical skip before the entry}%
24890     \DefineTOCEntryIfOption{breakafternumber}%
24891     {scr@tso@}{@breakafternumber}{line break after number flag}%
24892     \DefineTOCEntryIfOption{dynnumwidth}%
24893     {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
24894     \DefineTOCEntryListOption{indentfollows}%
24895     {scr@tso@}{@indentfollows}{list of levels that define the indent}%
24896     \DefineTOCEntryIfOption{dynindent}%
24897     {scr@tso@}{@dynindent}{dynamic indent width flag}%
24898     \DefineTOCEntryCommandOption{entryformat}%
24899     {scr@tso@}{@entryformat}[1]{entry format}%
24900     \DefineTOCEntryCommandOption{entrynumberformat}%
24901     {scr@tso@}{@numberformat}[1]{entry number format}%
24902     \DefineTOCEntryCommandOption{linefill}[\TOCLineLeaderFill]%
24903     {scr@tso@}{@linefill}{filling between text and page number}%
24904     \DefineTOCEntryLengthOption{numsep}%
24905     {scr@tso@}{@numsep}{entry number separation}%
24906     \DefineTOCEntryCommandOption{onstarthigherlevel}%
24907     {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
24908     \DefineTOCEntryCommandOption{onstartlowerlevel}%
24909     {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%

```



```

24910 \DefineTOCEntryCommandOption{onstartsamelevel}%
24911 {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
24912 \DefineTOCEntryCommandOption{pagenumberbox}%
24913 {scr@tso@}{@pagenumberbox}[1]{page number box}%
24914 \DefineTOCEntryCommandOption{pagenumberformat}%
24915 {scr@tso@}{@pagenumberformat}[1]{page number format}%
24916 \DefineTOCEntryLengthOption{pagenumberwidth}%
24917 {scr@tso@}{@pagenumberwidth}{width of page number box}%
24918 \DefineTOCEntryLengthOption{rightindent}%
24919 {scr@tso@}{@rightindent}{entry's text right indent}%
24920 \DefineTOCEntryOption{raggedentrytext}[true]{%
24921 \FamilySetBool{KOMAarg}{raggedentrytext}{@tempswa}{##1}%
24922 \ifx\FamilyKeyState\FamilyKeyStateProcessed
24923 \if@tempswa
24924 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24925 \raggedright
24926 \else
24927 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24928 \relax
24929 \fi
24930 \fi
24931 }%
24932 \DefineTOCEntryIfOption{raggedpagenumber}%
24933 {scr@tso@}{@raggedpage}{page number ragged flag}%
24934 \DefineTOCEntryLengthOption{indent}%
24935 {scr@tso@}{@indent}{entry indent}%
24936 \DefineTOCEntryLengthOption{numwidth}%
24937 {scr@tso@}{@numwidth}{entry number width}%
24938 \scr@ifundefinedorrelax{#1tocdepth}{%
24939 \Ifstrstart{#1}{sub}{%
24940 \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{%
24941 \expandafter\edef\csname #1tocdepth\endcsname{%
24942 \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
24943 }%
24944 }%
24945 }{}%
24946 }{}%
24947 \@ifundefined{#1tocdepth}{%
24948 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24949 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24950 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24951 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24952 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24953 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24954 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24955 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24956 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24957 \expandafter\let\csname #1tocdepth\expandafter\endcsname
24958 \csname #1numdepth\endcsname
24959 }%
24960 }%
24961 }%
24962 }%
24963 }%

```



```

24964         }%
24965     }%
24966 }%
24967 }%
24968 }{}%
24969 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
24970     \@ifundefined{scr@#1@tocindent}{%
24971         \Ifstrstart{#1}{sub}{%
24972             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
24973                 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
24974                 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24975                     \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
24976                 \relax
24977             }%
24978         }%
24979     }{%
24980         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
24981             \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24982                 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
24983             \relax
24984         }%
24985     }{%
24986         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24987             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
24988             +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
24989         \relax
24990     }%
24991 }%
24992 }%
24993 }{}%
24994 }{%
24995     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24996 }%
24997 }{}%
24998 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
24999     \Ifstrstart{#1}{sub}{%
25000         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
25001             \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}}%
25002         }{%
25003             \expandafter\let
25004             \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
25005             \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
25006         }%
25007     }{%
25008         \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}}%
25009 }%
25010 }{}%
25011 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
25012     \Ifstrstart{#1}{sub}{%
25013         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
25014             \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}}%
25015         }{%
25016             \expandafter\let
25017             \csname scr@tso@#1@rightindent\expandafter\endcsname

```



```

25018     \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
25019     }%
25020     }{%
25021     \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
25022     }%
25023     }{%
25024     \@ifundefined{scr@tso@#1@indent}{%
25025     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25026     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25027     \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
25028     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
25029     \scr@ifundefinedorrelax{1@chapter}{%
25030     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
25031     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25032     \Ifstr{#1}{subsubsection}{%
25033     \@namedef{scr@tso@#1@indent}{3.8em}%
25034     }{%
25035     \Ifstr{#1}{paragraph}{%
25036     \@namedef{scr@tso@#1@indent}{7em}%
25037     }{%
25038     \Ifstr{#1}{subparagraph}{%
25039     \@namedef{scr@tso@#1@indent}{10em}%
25040     }{%
25041     }%
25042     }%
25043     }%
25044     }%
25045     }%
25046     }{%
25047     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25048     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
25049     \Ifstr{#1}{subsubsection}{%
25050     \@namedef{scr@tso@#1@indent}{7.0em}%
25051     }{%
25052     \Ifstr{#1}{paragraph}{%
25053     \@namedef{scr@tso@#1@indent}{10em}%
25054     }{%
25055     \Ifstr{#1}{subparagraph}{%
25056     \@namedef{scr@tso@#1@indent}{12em}%
25057     }{%
25058     }%
25059     }%
25060     }%
25061     }%
25062     }%
25063     }%
25064     }%
25065     }%
25066     }%
25067     }%
25068     }{%
25069     \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
25070     \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
25071     \Ifstrstart{#1}{sub}{%

```



```

25072 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
25073 \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
25074 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
25075 +.9em%
25076 \relax
25077 }%
25078 }%
25079 }{}%
25080 }{%
25081 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
25082 }%
25083 }{}%
25084 \@ifundefined{scr@tso@#1@numwidth}{%
25085 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25086 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25087 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25088 \scr@ifundefinedorrelax{chapter}{%
25089 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25090 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25091 \Ifstr{#1}{subsubsection}{%
25092 \@namedef{scr@tso@#1@numwidth}{3.2em}%
25093 }{%
25094 \Ifstr{#1}{paragraph}{%
25095 \@namedef{scr@tso@#1@numwidth}{4.1em}%
25096 }{%
25097 \Ifstr{#1}{subparagraph}{%
25098 \@namedef{scr@tso@#1@numwidth}{5m}%
25099 }{%
25100 }%
25101 }%
25102 }%
25103 }%
25104 }%
25105 }{%
25106 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25107 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
25108 \Ifstr{#1}{subsubsection}{%
25109 \@namedef{scr@tso@#1@numwidth}{3.1em}%
25110 }{%
25111 \Ifstr{#1}{paragraph}{%
25112 \@namedef{scr@tso@#1@numwidth}{5em}%
25113 }{%
25114 \Ifstr{#1}{subparagraph}{%
25115 \@namedef{scr@tso@#1@numwidth}{6em}%
25116 }{%
25117 }%
25118 }%
25119 }%
25120 }%
25121 }%
25122 }%
25123 }%
25124 }%
25125 }%

```



```

25126 }{}%
25127 \expandafter\renewcommand%
25128 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
25129 \expandafter\renewcommand%
25130 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
25131 \expandafter\renewcommand%
25132 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
25133 \@ifundefined{scr@tso@#1@beforeskip}{%
25134   \Ifstr{#1}{part}{%
25135     \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
25136   }{%
25137     \Ifstr{#1}{chapter}{%
25138       \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25139     }{%
25140       \Ifstr{#1}{section}{%
25141         \scr@ifundefinedorrelax{l@chapter}{%
25142           \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25143         }{}%
25144       }{}%
25145     }%
25146   }%
25147   \expandafter\renewcommand\expandafter*%
25148   \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
25149 }{}%
25150 \@ifundefined{scr@dte@#1@maxnumwidth}{%
25151   \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
25152   \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
25153 }{}%
25154 \renewcommand*{\scr@dte@donumwidth}{}%
25155 \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
25156 \expandafter\renewcommand\expandafter*%
25157 \csname scr@tso@#1@numsep\endcsname{.4em}%
25158 \expandafter\renewcommand%
25159 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
25160 \Ifstr{#1}{part}{%
25161   \expandafter\providecommand%
25162   \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
25163 }{%
25164   \Ifstr{#1}{chapter}{%
25165     \expandafter\providecommand%
25166     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25167   }{%
25168     \scr@ifundefinedorrelax{l@chapter}{%
25169       \Ifstr{#1}{section}{%
25170         \expandafter\providecommand%
25171         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25172       }{}%
25173     }{}%
25174     \expandafter\providecommand%
25175     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
25176   }%
25177 }%
25178 \expandafter\renewcommand
25179 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%

```





```

25180 \@ifundefined{scr@tso@#1@linefill}{%
25181   \Ifstr{#1}{part}{%
25182     \@namedef{scr@tso@#1@linefill}{\hfill}%
25183   }{%
25184     \Ifstr{#1}{chapter}{%
25185       \@namedef{scr@tso@#1@linefill}{\hfill}%
25186     }{%
25187       \scr@ifundefinedorrelax{1@chapter}{%
25188         \Ifstr{#1}{section}{%
25189           \@namedef{scr@tso@#1@linefill}{\hfill}%
25190         }{}%
25191       }{}%
25192       \expandafter\renewcommand%
25193       \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
25194     }%
25195   }%
25196 }{}%
25197 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
25198 \Ifstr{#1}{part}{%
25199   \expandafter\providecommand%
25200   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
25201 }{%
25202   \Ifstr{#1}{chapter}{%
25203     \expandafter\providecommand%
25204     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25205   }{%
25206     \scr@ifundefinedorrelax{1@chapter}{%
25207       \Ifstr{#1}{section}{%
25208         \expandafter\providecommand%
25209         \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25210       }{}%
25211     }{}%
25212     \expandafter\providecommand%
25213     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
25214       {\normalfont\normalcolor ##1}}%
25215   }%
25216 }%
25217 \expandafter\renewcommand%
25218 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
25219   \hb@xt@{\@nameuse{scr@dte@pagenumberwidth}}{\hfil ##1}}%
25220 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
25221 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
25222 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
25223   \Ifstrstart{#1}{sub}{%
25224     \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
25225       \scr@dte@nosub{#1}%
25226     }%
25227   }{}%
25228   \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
25229 }%
25230 }{}%
25231 }}{%
25232   \scr@dte@tocline{#1}{##1}{##2}%
25233 }

```



```

25234
25235 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
25236   \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
25237     {\normalfont\normalcolor #1}%
25238   }%
25239 }{}
25240
25241 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
25242   \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
25243     {\normalfont\normalcolor #1}%
25244   }%
25245 }{}
25246

```

## 159 File `tocstyle-xetex-bidi.def`

```

25247 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
25248 \renewcommand*{\tocstyle@dottedtocline}[5]{%
25249   \let\numberline\tocstyle@numberline
25250   \ifnum #1>\c@tocdepth \else
25251     \if@tocstyle@penalties
25252       \begingroup
25253         \@tempcnta 20010
25254         \advance \@tempcnta by -#1
25255         \ifnum \@tempcnta>\lastpenalty
25256           \aftergroup\penalty\aftergroup\@lowpenalty
25257         \fi
25258       \endgroup
25259     \fi
25260     \edef\tocstyledepth{#1}%
25261     \tocstyle@activate@features
25262     \ifx\tocstyle@feature@entryvskip\relax
25263       \vskip \z@ \@plus.2\p@
25264     \else
25265       \addvspace{\tocstyle@feature@entryvskip}%
25266     \fi
25267     {%
25268       \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\else\rightskip\fi
25269       \tocstyle@feature@raggedhook
25270       \@tempdima #3\relax
25271       \@tempdimb #2\relax
25272       \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25273       \ifnum #1>\z@\relax
25274         \@tempcnta #1\relax \advance\@tempcnta \m@ne
25275         \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25276           \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25277             \@tempdimb
25278             \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25279             \advance\@tempdimb
25280             \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25281           \fi
25282         \fi
25283       \fi
25284       \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%

```



```

25285 \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
25286 \ifdim \@tempdimb>
25287 \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
25288 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25289 @#1\endcsname{\the\@tempdimb}%
25290 \fi
25291 \else
25292 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25293 @#1\endcsname{\the\@tempdimb}%
25294 \fi
25295 \iftocstyle@autolength
25296 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25297 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25298 \relax
25299 \fi
25300 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25301 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25302 \relax
25303 \fi
25304 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25305 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25306 \else
25307 \@tempdimb #2\relax
25308 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25309 \fi
25310 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
25311 \ifdim \@tempdima>
25312 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
25313 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25314 @\endcsname{\the\@tempdima}%
25315 \fi
25316 \else
25317 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25318 @\endcsname{\the\@tempdima}%
25319 \fi
25320 \ifcase\tocstyle@indentstyle\relax\else
25321 \@tempdimb \z@
25322 \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25323 \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25324 \relax
25325 \fi
25326 \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25327 \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25328 \fi
25329 \advance\parindent \@tempdimb\@afterindenttrue
25330 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
25331 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
25332 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
25333 \ifx\tocstyle@feature@parfillskip\relax\else
25334 \advance\parfillskip \tocstyle@feature@parfillskip\relax
25335 \fi
25336 \interlinepenalty\@M
25337 \leavevmode
25338 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima

```



```

25339 \null\nobreak
25340 \iftocstyle@indentnotnumbered\else
25341 \hskip -\if@RTL\rightskip\else\leftskip\fi
25342 \fi
25343 \tocstyle@feature@entryhook
25344 {#4}\nobreak
25345 \ifx\tocstyle@feature@leaders\relax
25346 \leaders\hbox{$\m@th
25347 \mkern \dotsep mu\hbox{\tocstyle@feature@dotohook .}%
25348 \mkern \dotsep mu$}\hfill
25349 \else
25350 \tocstyle@feature@leaders
25351 \fi
25352 \nobreak
25353 \ifx\tocstyle@feature@pagenumberbox\relax
25354 \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
25355 \else
25356 \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
25357 \fi
25358 \par
25359 }%
25360 \if@tocstyle@penalties
25361 \bgroup
25362 \@tempcnta 20009
25363 \advance\@tempcnta by -#1
25364 \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
25365 \reserved@a
25366 \fi
25367 \fi}
25368 \renewcommand*{\tocstyle@numberline}[1]{%
25369 \beginngroup
25370 \ifx\tocstyle@feature@spaceafternumber\relax
25371 \settowidth\@tempdima{\tocstyle@@numberline{#1}\enskip}%
25372 \else
25373 \settowidth\@tempdima{\tocstyle@@numberline{#1}}%
25374 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
25375 \fi
25376 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
25377 \ifdim \@tempdima >
25378 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
25379 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25380 @\tocstyledepth\endcsname{\the\@tempdima}%
25381 \fi
25382 \else
25383 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25384 @\tocstyledepth\endcsname{\the\@tempdima}%
25385 \fi
25386 \endgroup
25387 \iftocstyle@indentnotnumbered
25388 \hskip -\if@RTL\rightskip\else\leftskip\fi
25389 \fi
25390 \ifcase \tocstyle@indentstyle
25391 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
25392 \or

```



```

25393 \hb@xt@{\tempdima{\tocstyle@numberline{#1}\hfil}%
25394 \else
25395 \ifx\tocstyle@feature@spaceafternumber\relax
25396 \hbox{\tocstyle@numberline{#1}\enskip}%
25397 \else
25398 \hbox{\tocstyle@numberline{#1}\hskip
25399 \tocstyle@feature@spaceafternumber\relax}%
25400 \fi
25401 \fi
25402 }
25403 \AtBeginDocument{%
25404 \ifcsname l@part\endcsname
25405 \ifcsname l@chapter\endcsname
25406 \setbox\@tempboxa\vbox{\hsize\maxdimen
25407 \l@part{\tocstyle@l@define{part}{-1}}{}}%
25408 \else
25409 \setbox\@tempboxa\vbox{\hsize\maxdimen
25410 \l@part{\tocstyle@l@define{part}{0}}{}}%
25411 \fi
25412 \fi
25413 \ifcsname l@chapter\endcsname
25414 \setbox\@tempboxa\vbox{\hsize\maxdimen
25415 \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
25416 \fi
25417 \ifcsname l@section\endcsname
25418 \setbox\@tempboxa\vbox{\hsize\maxdimen
25419 \l@section{\tocstyle@l@define{section}{1}}{}}%
25420 \fi
25421 \ifcsname l@subsection\endcsname
25422 \setbox\@tempboxa\vbox{\hsize\maxdimen
25423 \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
25424 \fi
25425 \ifcsname l@subsubsection\endcsname
25426 \setbox\@tempboxa\vbox{\hsize\maxdimen
25427 \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
25428 \fi
25429 \ifcsname l@paragraph\endcsname
25430 \setbox\@tempboxa\vbox{\hsize\maxdimen
25431 \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
25432 \fi
25433 \ifcsname l@subparagraph\endcsname
25434 \setbox\@tempboxa\vbox{\hsize\maxdimen
25435 \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
25436 \fi
25437 \ifcsname l@table\endcsname
25438 \setbox\@tempboxa\vbox{\hsize\maxdimen
25439 \l@table{\tocstyle@l@define{table}{1}}{}}%
25440 \fi
25441 \ifcsname l@figure\endcsname
25442 \setbox\@tempboxa\vbox{\hsize\maxdimen
25443 \l@figure{\tocstyle@l@define{figure}{1}}{}}%
25444 \fi
25445 \def\@tempa#1#2#3#4#5{%
25446 \ifnum #1>\c@tocdepth \else

```



```

25447 \vskip \z@ \@plus.2\p@
25448 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@toc
25449 \parindent #2\relax\@afterindenttrue
25450 \interlinepenalty\@M
25451 \leavevmode
25452 \@tempdima #3\relax
25453 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
25454 {#4}\nobreak
25455 \leaders\hbox{$\m@th
25456 \mkern \dotsep mu\hbox{.}\mkern \dotsep
25457 mu$}\hfill
25458 \nobreak
25459 \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
25460 \par}%
25461 \fi}%
25462 \ifx\@dottedtocline\@tempa\else
25463 \tocstyle@macrochangewarning\@dottedtocline
25464 \fi
25465 \let\tocstyle@saved@dottedtocline\@dottedtocline
25466 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
25467 \ifx\numberline\@tempa\else
25468 \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
25469 \ifx\numberline\@tempa\else
25470 \tocstyle@macrochangewarning\numberline
25471 \fi
25472 \fi
25473 \let\tocstyle@saved\numberline\numberline
25474 }
25475 \renewcommand*{\tocstyle@l@define}[2]{%
25476 \advance\if@RTL\righskip\else\leftskip\fi-\@tempdima
25477 \edef\@tempa{%
25478 \noexpand\global\noexpand\let
25479 \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
25480 \expandafter\noexpand\csname l@#1\endcsname
25481 \noexpand\gdef
25482 \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
25483 \noexpand\@dottedtocline{#2}{\the\if@RTL\righskip\else\leftskip\fi}{\the\@tempdima}}%
25484 \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
25485 \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
25486 \expandafter\noexpand\csname tocstyle@l@#1\endcsname
25487 }%
25488 }%
25489 \PackageInfo{tocstyle}{prepare \expandafter\string
25490 \csname l@#1\endcsname\space for redefinition}%
25491 \@tempa
25492 }

```

## 160 File todonotes-xetex-bidi.def

```

25493 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
25494 \newif\if@bidi@todonotes@textdirection@RTL
25495 \newif\if@bidi@todonotes@figposition@right
25496 \newcommand{\@bidi@todonotes@align}{}%
25497 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%

```



```

25498 \newcommand{\@bidi@todonotes@textdirection}{}%
25499 \define@choicekey{todonotes}{textdirection}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right,
25500 \ifcase\bidi@todonotes@tempb\relax
25501 \@bidi@todonotes@textdirection@RTLtrue
25502 \let\bidi@todonotes@textdirection\RLE
25503 \or
25504 \@bidi@todonotes@textdirection@RTLfalse
25505 \let\bidi@todonotes@textdirection\LRE
25506 \fi}
25507 \define@choicekey{todonotes}{figposition}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right,
25508 \ifcase\bidi@todonotes@tempb\relax
25509 \@bidi@todonotes@figposition@righttrue
25510 \or
25511 \@bidi@todonotes@figposition@rightfalse
25512 \fi}
25513 \if@todonotes@disabled%
25514 \else % \if@todonotes@disabled
25515 \renewcommand{\@todonotes@drawInlineNote}{%
25516 \if@todonotes@dviStyle%
25517 {\par\noindent\begin{tikzpicture}[remember picture]%
25518 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
25519 \if@todonotes@authorgiven%
25520 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
25521 \else%
25522 {\noindent \@todonotes@sizecommand \@todonotes@text}%
25523 \fi
25524 {\par\noindent\begin{tikzpicture}[remember picture]%
25525 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
25526 \else%
25527 {\par\noindent\begin{tikzpicture}[remember picture]%
25528 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25529 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@
25530 \if@todonotes@authorgiven%
25531 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text
25532 \else%
25533 {\noindent \@todonotes@sizecommand \@todonotes@text}%
25534 \fi};%
25535 \end{tikzpicture}\par}%
25536 \fi}%
25537 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
25538 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
25539 \node [coordinate] (inText) {};%
25540 \end{tikzpicture}%
25541 \marginpar[{} Draw note in left margin
25542 \@todonotes@drawMarginNote%
25543 \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
25544 }]{% Draw note in right margin
25545 \@todonotes@drawMarginNote%
25546 \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
25547 }%
25548 }%
25549 \renewcommand{\@todonotes@drawMarginNote}{%
25550 \if@todonotes@dviStyle%
25551 \begin{tikzpicture}[remember picture]%

```



```

25552         \draw node[notestyle] {};%
25553     \end{tikzpicture}\}%
25554     \begin{minipage}{\@todonotes@textwidth}%
25555     \if@todonotes@authorgiven%
25556         \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
25557     \else%
25558         \@todonotes@sizecommand \@todonotes@text%
25559     \fi%
25560     \end{minipage}\}%
25561     \begin{tikzpicture}[remember picture]%
25562         \draw node[notestyle] (inNote) {};%
25563     \end{tikzpicture}%
25564 \else%
25565     \let\originalHbadness\hbadness%
25566     \hbadness 100000%
25567     \begin{tikzpicture}[remember picture,baseline=(X.base)]%
25568         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25569         \node(X){\vphantom{X}};%
25570         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
25571         \if@todonotes@authorgiven%
25572             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@sizecommand \@todonotes@author};%
25573             \node(Y)[below=of X]{};%
25574             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
25575         \else%
25576             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
25577         \fi%
25578     \end{tikzpicture}%
25579     \hbadness \originalHbadness%
25580 \fi}%
25581 \renewcommand{\missingfigure}[2]{}%
25582 \setkeys{todonotes}{#1}%
25583 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
25584 \par
25585 \noindent
25586 \begin{tikzpicture}
25587 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
25588 (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
25589 \if@bidi@todonotes@figposition@right%
25590 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25591 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
25592 (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
25593 \if@bidi@todonotes@figposition@right%
25594 \end{scope}
25595 \begin{scope}[xshift=-3.8cm]
25596 \draw (2, -0.3) node[right, text
25597 width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
25598 \if@bidi@todonotes@figposition@right%

```





```

25606 \end{scope}
25607 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25608 \fi%
25609 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}}
25610 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}}
25611 \if@bidi@todonotes@figposition@right%
25612 \end{scope}
25613 \fi%
25614 \end{tikzpicture}\hfill
25615 }% Ending \missingfigure command
25616 \fi % Ending \@todonotes@ifdisabled
25617 \presetkeys%
25618   {todonotes}%
25619   {align=left,%
25620    textdirection=lefttoright,%
25621    figposition=left}{}%

```

## 161 File wrapfig-xetex-bidi.def

```

25622 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package]
25623 \let\WF@everypar\@everypar
25624 \def\WF@putfigmaybe{%
25625 \ifinner
25626   \vskip-\parskip \global\WF@floatfalse
25627   \let\pagetotal\maxdimen % kludge flag for "not top of page"
25628 \else % outer page
25629   \@tempdima\pagedepth % save page depth
25630   {\advance\parskip\@tempdima\if@RTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
25631   \penalty\interlinepenalty % update pg. parameters
25632   \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
25633   \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
25634     \global\WF@floatfalse
25635     \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
25636   \else
25637     \ifdim\WF@size>\@tempdimb
25638       \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
25639       \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
25640       \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
25641       \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
25642       \advance\dimen@.5\baselineskip
25643       \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch;}%
25644         \global\WF@floatfalse \pagebreak
25645       \fi
25646     \else % \WF@info{Fits in \the\@tempdimb;}%
25647       \global\WF@floatfalse
25648     \fi\fi
25649     \vskip\@tempdima\relax % (return erased page depth)
25650 \fi
25651 \noindent
25652 \ifWF@float
25653   \WF@fltmes
25654 \else % putting here;
25655   \WF@info{Put \WF@wfname here;}%
25656   {\ifodd\if@twoside\c@page\else\@one\fi % assign l/r to i/o placement

```



```

25657 \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
25658 \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
25659 \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
25660 \@tempdima\wd\WF@box \@tempdimb\WF@ovh
25661 \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
25662 \@tempdimb\hsize \advance\@tempdimb-\@tempdima
25663 \xdef\WF@adjlw{\the\@tempdima}%
25664 \ifnum `l=\WF@place % fig on left
25665 \if@RTL%
25666 \kern\@tempdimb \kern\columnsep
25667 \def\@tempa{\hss}% position to left of the gap
25668 \else%
25669 \hss % figure overlaps space to the left
25670 \def\@tempa{\kern\columnsep}% position to left of the gap
25671 \fi%
25672 \else % fig on right
25673 \if@RTL%
25674 \hss
25675 \@tempdima\z@
25676 \def\@tempa{\kern\columnsep}
25677 \else%
25678 \@tempdima\z@ % no left indentation
25679 \kern\@tempdimb \kern\columnsep
25680 \def\@tempa{\hss}% figure overlaps space to the right
25681 \fi%
25682 \fi
25683 \ifdim\@tempdimb<\hsize
25684 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
25685 \xdef\WF@adjtlm{\the\@tempdima}%
25686 \else
25687 \xdef\WF@wrapil{\z@ \the\hsize}%
25688 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
25689 \fi
25690 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
25691 \global\advance\WF@size-\intextsep
25692 \else % \WF@info{Putting \WF@wfname in middle of page}%
25693 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
25694 \fi \dp\WF@box\z@ \box\WF@box \@tempa
25695 }% end \hbox to 0pt
25696 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
25697 \fi}

```

## 162 File xcolor-xetex-bidi.def

```

25698 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
25699 \long\def\color@b@x#1#2#3%
25700 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
25701 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
25702 \dimen@ht\z@\advance\dimen@\fbboxsepht\z@\dimen@
25703 \dimen@dp\z@\advance\dimen@\fbboxsepdp\z@\dimen@
25704 {\#1{\#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
25705 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup
25706 \DeclareRobustCommand\color
25707 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]}

```



```

25708 \def\@undeclaredcolor[#1]#2%
25709 {\begingroup
25710 \let\@cls\@empty
25711 \XC@getmodclr12{#1}{#2}{}%
25712 {\ifblendcolors
25713 \ifx\colorblend\@empty\else
25714 \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
25715 \XC@coremodel\@mod\@clr\xcolor@{ }\@mod\@clr
25716 \fi
25717 \fi
25718 \ifconvertcolorsU
25719 \edef\@tmp{\XC@tgt@mod{\@mod}}%
25720 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25721 \fi
25722 \ifmaskcolors
25723 \convertcolorspec\@mod\@clr\XC@mmod\@clr
25724 \let\@mod\XC@mmod
25725 \XC@inflate\@mod\XC@mclr\@clr\@tmp
25726 \expandafter\XC@mul\@tmp,\@clr
25727 \fi
25728 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
25729 \expandafter\endgroup\@tmp}}
25730 \def\@declaredcolor#1%
25731 {\XC@edef\XC@tmp{#1}\XC@tstfalse
25732 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
25733 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
25734 \ifconvertcolorsU\XC@tsttrue\fi
25735 \fi
25736 \ifXC@tst
25737 \expandafter\XC@declaredcolor\else
25738 \expandafter\XC@declaredc@lor\fi}
25739 \def\XC@undeclaredcolor#1#2%
25740 {\@ifundefinedmodel{#1}%
25741 {\c@lor@error{model `#1'}}%
25742 {\@nameuse{color@#1}\current@color{#2}}%
25743 \edef\XC@current@color{\noexpand\xcolor@{ }\current@color}{#1}{#2}}%
25744 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25745 \def\XC@declaredc@lor
25746 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
25747 \edef\current@color{\XC@current@color}%
25748 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25749 \DeclareRobustCommand\bidicolor
25750 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
25751 \def\@bidiundeclaredcolor[#1]#2%
25752 {\begingroup
25753 \let\@cls\@empty
25754 \XC@getmodclr12{#1}{#2}{}%
25755 {\ifblendcolors
25756 \ifx\colorblend\@empty\else
25757 \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
25758 \XC@coremodel\@mod\@clr\xcolor@{ }\@mod\@clr
25759 \fi
25760 \fi
25761 \ifconvertcolorsU

```



```

25762 \edef\@tmp{\XC@tgt@mod{\@mod}}%
25763 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25764 \fi
25765 \ifmaskcolors
25766 \convertcolorspec\@mod\@clr\XC@mmod\@clr
25767 \let\@mod\XC@mmod
25768 \XC@inflate\@mod\XC@mclr\@clr\@tmp
25769 \expandafter\XC@mul\@tmp,\@clr
25770 \fi
25771 \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
25772 \expandafter\endgroup\@tmp}}
25773 \def\XC@bidiundeclaredcolor#1#2%
25774 {\@ifundefinedmodel{#1}%
25775 {\c@lor@error{model `#1'}}%
25776 {\@nameuse{color@#1}\current@color{#2}%
25777 \edef\XC@current@color{\noexpand\xcolor@{\current@color}{#1}{#2}}%
25778 \XC@display}}
25779 \def\@bidideclaredcolor#1%
25780 {\XC@edef\XC@tmp{#1}\XC@tstfalse
25781 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
25782 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
25783 \ifconvertcolorsU\XC@tsttrue\fi
25784 \fi
25785 \ifXC@tst
25786 \expandafter\XC@bidideclaredcolor\else
25787 \expandafter\XC@bidideclaredc@lor\fi}
25788 \def\XC@bidideclaredcolor
25789 {\XC@split\XC@tmp
25790 \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}%
25791 \expandafter\endgroup\@tmp}
25792 \def\XC@bidideclaredc@lor
25793 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
25794 \edef\current@color{\XC@current@color}%
25795 \XC@display}
25796 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
25797 \def\color@fbbox#1#2#3{\protect\color@fb@x{#1}{#2}{#3}}
25798 \def\color@fb@x#1#2#3#4%
25799 {\color@b@x{\fbboxsep\z@\bidicolor#1{#2}\XC@fbbox}%
25800 {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
25801 \def\color@setgroup{\begingroup\ifhmode\ifRTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 163 File latex-xetex-bidi.def

```

25802 \ProvidesFile{latex-xetex-bidi.def}[2025/01/03 v1.5.2 bidi adaptations for `latex.ltx' for
25803 \newcommand{\TeXXeTOn}{\TeXXeTstate@ne}
25804 \newcommand{\TeXXeTOff}{\TeXXeTstate@z@}
25805 \TeXXeTOn
25806 \def\bidi@RTL@everypar{\setbox\z@lastbox\ifRTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
25807 \let\bidi@o@everypar=\everypar
25808 \newtoks\bidi@n@everypar
25809 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
25810 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
25811 \let\everypar=\bidi@n@everypar
25812 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}

```



```

25813 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
25814 \protected\def\hboxR{\hbox\bgroup
25815   \everyhbox{%
25816     \aftergroup\egroup
25817     \everyhbox{}%
25818     \beginR
25819     \@hboxRconstructtrue
25820     \bgroup
25821     \aftergroup\endR
25822     \aftergroup\egroup
25823   }\hbox}
25824 \protected\def\hboxL{\hbox\bgroup
25825   \everyhbox{%
25826     \aftergroup\egroup
25827     \everyhbox{}%
25828     \beginL
25829     \@hboxRconstructfalse
25830     \bgroup
25831     \aftergroup\endL
25832     \aftergroup\egroup
25833   }\hbox}
25834 \protected\def\vboxR{\vbox\bgroup
25835   \everyvbox{%
25836     \aftergroup\egroup
25837     \everyvbox{}%
25838     \@RTLtrue
25839     \@RTLtabtrue
25840     \bgroup
25841     \aftergroup\egroup
25842   }\vbox}
25843 \protected\def\vboxL{\vbox\bgroup
25844   \everyvbox{%
25845     \aftergroup\egroup
25846     \everyvbox{}%
25847     \@RTLfalse
25848     \@RTLtabfalse
25849     \bgroup
25850     \aftergroup\egroup
25851   }\vbox}
25852 \newcommand*{\bidi@leftskip}{\if@RTL\righskip\else\leftskip\fi}
25853 \newcommand*{\bidi@rightskip}{\if@RTL\leftskip\else\righskip\fi}
25854 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidi@beamer}
25855 \def\endLTR{\par}
25856 \newenvironment{LTR*}{\LTR
25857   \everypar{%
25858     {\setbox\z@\lastbox
25859       \ifvoid\z@
25860         \kern-\parindent
25861       \fi}%
25862   }%
25863 }{\endLTR\@endpetrue}
25864 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beamer}
25865 \def\endRTL{\par}
25866 \newenvironment{RTL*}{\RTL

```



```

25867 \everypar{%
25868   {\setbox\z@\lastbox
25869     \ifvoid\z@
25870       \kern-\parindent
25871     \fi}%
25872 }%
25873 }{\endRTL\@endpetrue}
25874 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTL@tabtrue\@bidi@beamer@ragged}
25875 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTL@tabfalse\@bidi@beamer@ragged}
25876 \let\unsetRTL=\setRTL
25877 \let\unsetLTR=\setLTR
25878 \let\LR=\LRE
25879 \let\RL=\RLE
25880 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
25881 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
25882 \let\@ensure@RL=\@ensure@RTL
25883 \let\@ensure@LR=\@ensure@LTR
25884 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
25885 \let\@ensure@maindir=\@ensure@dir
25886 \def\@RTL{RTL}
25887 \def\@LTR{LTR}
25888 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
25889 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
25890 \let\@TeX\TeX
25891 \def\TeX{\@ensure@LTR{\@TeX}}
25892 \let\@LaTeX\LaTeX
25893 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
25894 \let\@LaTeXe\LaTeXe
25895 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
25896 \long\def\bidi@reflect@box#1{%
25897   \leavevmode
25898   \setbox\z@\hbox{#1}%
25899   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
25900   \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}%
25901 }
25902 \if@bidi@csundef{XeTeX}{%
25903   \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
25904     \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}%
25905 }{%
25906   \let\@bidi@orig@XeTeX\XeTeX
25907   \bidi@renewrobustcmd*{\XeTeX}{\LR{\@bidi@orig@XeTeX}}%
25908 }
25909 \if@bidi@csundef{XeLaTeX}{%
25910   \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
25911     \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}%
25912 }{%
25913   \let\@bidi@orig@XeLaTeX\XeLaTeX
25914   \bidi@renewrobustcmd*{\XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
25915 }
25916 \let\setRL=\setRTL
25917 \let\setLR=\setLTR
25918 \let\unsetRL=\setLTR
25919 \def\bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
25920 \ApplyPatchIfPackageLoaded{array}{%

```



```

25921 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
25922 \leavevmode
25923 \hbox \bgroup $\left.\col@sep\tabcolsep \let\dollarbegin\begin\group
25924 \let\dollarend\endgroup
25925 \@tabarray}
25926 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
25927 }{%
25928 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
25929 \leavevmode \hbox \bgroup
25930 $\left.\let\@acol\@tabacol
25931 \let\@classz\@tabclassz
25932 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
25933
25934 \def\endbidi@tabular@RTLcases{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
25935 \egroup\right\rbrace $\egroup}}
25936 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
25937 \ialign{##\hfil$\quad{##}\hfil\crr#1\crr}}\right\}
25938 \renewenvironment{RTLcases}{%
25939 \bidi@matrix@check\RTLcases\env@RTLcases
25940 }{%
25941 \endbidi@tabular@RTLcases%
25942 }
25943 \def\env@RTLcases{%
25944 \let\@ifnextchar\bidi@new@ifnextchar
25945 \def\arraystretch{1.2}%
25946 \bidi@tabular@RTLcases{@{}r{\quad}r{}}%
25947 }
25948 \def\SepMark#1{\gdef\@SepMark{#1}}
25949 \SepMark{.}
25950 \def\@thmcountersep{\@SepMark}
25951 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
25952 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
25953 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
25954 \newcommand*{\bidi@thebibliography@font@hook}{}
25955 \def\list#1#2{%
25956 \ifnum \@listdepth >5\relax
25957 \toodeep
25958 \else
25959 \global\advance\@listdepth\@ne
25960 \fi
25961 \rightmargin\z@
25962 \listparindent\z@
25963 \itemindent\z@
25964 \csname @list\romannumeral\the\@listdepth\endcsname
25965 \def\@itemlabel{#1}%
25966 \let\makelabel\@mklab
25967 \@nmbrrlistfalse
25968 #2\relax
25969 \@trivlist
25970 \parskip\parsep
25971 \parindent\listparindent
25972 \advance\linewidth -\rightmargin
25973 \advance\linewidth -\leftmargin
25974 \if@bidi@list@minipage@parbox

```



```

25975 \if@RTL
25976 \advance\@totalleftmargin \leftmargin
25977 \else
25978 \advance\@totalleftmargin \rightmargin
25979 \fi
25980 \else
25981 \if@hboxRconstruct
25982 \if@bidi@list@minipage@parbox@not@nob
25983 \if@RTL
25984 \advance\@totalleftmargin \rightmargin
25985 \else
25986 \advance\@totalleftmargin \leftmargin
25987 \fi
25988 \else
25989 \if@RTL
25990 \advance\@totalleftmargin \leftmargin
25991 \else
25992 \advance\@totalleftmargin \rightmargin
25993 \fi\fi
25994 \else
25995 \if@RTL
25996 \advance\@totalleftmargin \rightmargin
25997 \else
25998 \advance\@totalleftmargin \leftmargin
25999 \fi\fi\fi
26000 \parshape \@ne \@totalleftmargin \linewidth
26001 \ignorespaces}
26002 \long\def\@iiparbox#1#2[#3]#4#5{%
26003 \leavevmode
26004 \@pboxswfalse
26005 \if@hboxRconstruct
26006 \@bidi@list@minipage@parbox@not@nobtrue
26007 \fi
26008 \if@RTL
26009 \ifx#1t%
26010 \@bidi@list@minipage@parboxtrue
26011 \else
26012 \ifx#1b%
26013 \@bidi@list@minipage@parboxtrue
26014 \fi
26015 \fi
26016 \fi
26017 \setlength\@tempdima{#4}%
26018 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
26019 \ifx\relax#2\else
26020 \setlength\@tempdimb{#2}%
26021 \edef\@parboxto{to\the\@tempdimb}%
26022 \fi
26023 \if#1b\vbox
26024 \else\if #1t\top
26025 \else\ifmmode\center
26026 \else\@pboxswtrue $\center
26027 \fi\fi\fi
26028 \@parboxto{\let\hss\vss\let\unhbox\unvbox

```





```

26029      \csname bm@#3\endcsname}%
26030      \if@pboxsw \m@th$\fi
26031      \@end@tempboxa}
26032 \newenvironment{LTRitems}
26033     {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
26034      \if@bidi@list@minipage@parbox
26035      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26036      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26037      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26038      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26039      \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26040      \ignorespaces}{\vskip\z@}
26041 \newenvironment{RTLitems}
26042     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
26043      \if@bidi@list@minipage@parbox
26044      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26045      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26046      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26047      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26048      \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26049      \ignorespaces}{\vskip\z@}
26050 \newenvironment{LTRbibitems}
26051     {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
26052      \if@bidi@list@minipage@parbox
26053      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26054      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26055      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26056      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26057      \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26058      \ignorespaces}{\vskip\z@}
26059 \newenvironment{RTLbibitems}
26060     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
26061      \if@bidi@list@minipage@parbox
26062      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26063      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26064      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26065      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26066      \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26067      \ignorespaces}{\vskip\z@}
26068 \def\raggedright{%
26069   \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
26070   \leftskip\z@skip
26071   \parindent\z@\parfillskip\z@skip}
26072 \let\@bidi@orig@raggedleft\raggedleft
26073 \let\@bidi@orig@raggedright\raggedright
26074 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\if@hboxRco
26075 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\if@hboxRco
26076 \newcommand{\@bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
26077 \newcommand{\@bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
26078 \DeclareRobustCommand\centerline[1]{%
26079 \if@RTL\@@line{\hss\beginR#1\endR\hss}
26080 \else\@@line{\hss#1\hss}\fi}
26081 \def\@bidi@orig@leftline#1{%
26082 \if@RTL\@@line{\beginR#1\endR\hss}

```



```

26083 \else\@@line{#1\hss}\fi}
26084 \def\bidiorig@rightline#1{%
26085 \if@RTL\@@line{\hss\beginR#1\endR}
26086 \else\@@line{\hss#1}\fi}
26087 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\bidiorig@rightline{#1}\else\bidiorig@lef
26088 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\bidiorig@leftline{#1}\else\bidiorig@rig
26089 \DeclareRobustCommand\bidirlap[1]{\hb@xt@z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
26090 \DeclareRobustCommand\bidillap[1]{\hb@xt@z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
26091 \def\@hangfrom#1{\setbox\@tempboxa\hbox{#1}}%
26092 \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
26093 \def\narrower{%
26094 \advance\if@RTL\rightskip\else\leftskip\fi\parindent
26095 \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
26096 \DeclareRobustCommand\underline[1]{%
26097 \relax
26098 \ifmmode\@@underline{#1}%
26099 \else
26100 \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
26101 \else
26102 $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
26103 \if@compatibility
26104 \let\undertext=\underline
26105 \fi
26106 \def\@tabular{%
26107 \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
26108 $\let\@acol\@tabacol
26109 \let\@classz\@tabclassz
26110 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
26111 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
26112 \egroup $\if@RTLtab\endR\fi\egroup}
26113 \expandafter \let \csname endtabular*\endcsname = \endtabular
26114 \def\@array[#1]#2{%
26115 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
26116 \bgroup
26117 \setbox\@arstrutbox\hbox{%
26118 \vrule \@height\arraystretch\ht\strutbox
26119 \@depth\arraystretch \dp\strutbox
26120 \@widthz@}%
26121 \@mkpream{#2}%
26122 \edef\@preamble{%
26123 \ialign \noexpand\@halignto
26124 \bgroup \@arstrut \@preamble \tabskipz@skip \cr}%
26125 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
26126 \let\@tabularnewline\%
26127 \let\par\@empty
26128 \let\sharp##%
26129 \set@typeset@protect
26130 \lineskipz@skip\baselineskipz@skip
26131 \ifhmode \@preamerrz@ \@@par\fi
26132 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
26133 \@preamble}
26134 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
26135 \let\@classiv\@arrayclassiv
26136 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}

```



```

26137 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
26138   \ifnum \@lastchclass=3 5 \else
26139   \z@ \if #1c\@chnum \z@ \else
26140           \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
26141           \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
26142   \@chclass \if #1|\@ne \else
26143           \if #1@\tw@ \else
26144           \if #1p3 \else \z@ \@preamerr 0\fi
26145 \fi \fi \fi \fi \fi \fi
26146 \fi}
26147 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
26148 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
26149 \def\bm@t{\unhbox\@tempboxa\hss}
26150 \def\bm@b{\hss\unhbox\@tempboxa}
26151 \def\@dottedtocline#1#2#3#4#5{%
26152   \ifnum #1>\c@tocdepth \else
26153     \vskip \z@ \@plus.2\p@
26154     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrm
26155     \parindent #2\relax\@afterindenttrue
26156     \interlinepenalty\@M
26157     \leavevmode
26158     \@tempdima #3\relax
26159     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
26160     {#4}\nobreak
26161     \leaders\hbox{$\m@th
26162       \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
26163       mu$}\hfill
26164     \nobreak
26165     \hb@xt@\@pnumwidth{{\hfil\normalfont \normalcolor #5}}%
26166     \par}%
26167 \fi}
26168
26169 \newcount\@bidi@column@check@number
26170
26171 \def\@bidi@column@status#1{\gdef\@bidi@current@column@status{#1}}
26172
26173 \def\@bidi@set@column@status#1#2{%
26174   \global\expandafter\let\csname #1\endcsname\@bidi@current@column@status}
26175
26176 \if@twocolumn
26177 \newcommand\DetectColumn[3][1]{%
26178   \ifx\@bidi@firstcolumn@status\write\relax
26179     \PackageError{bidi}%
26180       {Option 'DetectColumn' not selected}%
26181       {\string\DetectColumn\space
26182        requires the use of the 'DetectColumn'
26183        option on the package}%
26184   \fi
26185   \global\advance\@bidi@column@check@number\@ne
26186   \edef\@bidi@column@typef{\expandafter\ifx
26187     \csname bidi@column-\the\@bidi@column@check@number\endcsname\relax
26188     0\else
26189     \csname bidi@column-\the\@bidi@column@check@number\endcsname
26190     \fi}%

```



```

26191 \ifcase \bidi@column@type\relax
26192   \ifcase #1\or #2\or#3\fi   % 0 not known use first column as default
26193   \or
26194     #2%   % 1 First column
26195   \or
26196     #3%   % 2 Second (Last column)
26197   \else
26198     \ERROR
26199   \fi
26200   \edef\next{\write\@auxout
26201     {\string\bidi@set@column@status{\bidi@column-\the\bidi@column@check@number}}%
26202     {\bidi@column@type}}}%
26203   \next
26204 }
26205
26206 \AtEndDocument{\def\bidi@set@column@status#1#2{%
26207   \ifnum #2=\bidi@current@column@status\else
26208     \@tempswattrue
26209   \fi}%
26210 }
26211 \fi
26212
26213 \def\RTL@outputdblcol{%
26214   \if@firstcolumn
26215     \global\@firstcolumnfalse
26216     \global\setbox\@leftcolumn\copy\@outputbox
26217     \splitmaxdepth\maxdimen
26218     \vbadness\maxdimen
26219     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26220     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26221     \toks@\expandafter{\topmark}%
26222     \xdef\@firstcoltopmark{\the\toks@}%
26223     \toks@\expandafter{\splitfirstmark}%
26224     \xdef\@firstcolfirstmark{\the\toks@}%
26225     \ifx\@firstcolfirstmark\@empty
26226       \global\let\@setmarks\relax
26227     \else
26228       \gdef\@setmarks{%
26229         \let\firstmark\@firstcolfirstmark
26230         \let\topmark\@firstcoltopmark}%
26231     \fi
26232   \else
26233     \global\@firstcolumntrue
26234     \setbox\@outputbox\vbox{%
26235       \hb@xt@\textwidth{%
26236         \hskip \columnwidth
26237         \hfil
26238         {\normalcolor\vrule \@width\columnseprule}%
26239         \hfil
26240         \hb@xt@\columnwidth{%
26241           \bidi@firstcolumn@status@write%
26242           \box\@leftcolumn \hss}%
26243         \hskip -\textwidth
26244         \hb@xt@\columnwidth{%

```



```

26245      \bidi@lastcolumn@status@write%
26246      \box\@outputbox \hss}%
26247      \hskip \columnsep
26248      \hskip \columnwidth }}%
26249 \@combinedblfloats
26250   \setmarks
26251   \@outputpage
26252   \begingroup
26253     \dblfloatplacement
26254     \startdblcolumn
26255     \@whilesw\if@fcolmade \fi{\@outputpage
26256     \startdblcolumn}%
26257   \endgroup
26258 \fi}%
26259
26260 \def\LTR@outputdblcol{%
26261   \if@firstcolumn
26262     \global\@firstcolumnfalse
26263     \global\setbox\@leftcolumn\copy\@outputbox
26264     \splitmaxdepth\maxdimen
26265     \vbadness\maxdimen
26266     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26267     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26268     \toks@\expandafter{\topmark}%
26269     \xdef\@firstcoltopmark{\the\toks@}%
26270     \toks@\expandafter{\splitfirstmark}%
26271     \xdef\@firstcolfirstmark{\the\toks@}%
26272     \ifx\@firstcolfirstmark\@empty
26273       \global\let\@setmarks\relax
26274     \else
26275       \gdef\@setmarks{%
26276         \let\firstmark\@firstcolfirstmark
26277         \let\topmark\@firstcoltopmark}%
26278     \fi
26279   \else
26280     \global\@firstcolumntrue
26281     \setbox\@outputbox\vbox{%
26282       \hb@xt@\textwidth{%
26283         \hb@xt@\columnwidth{%
26284           \bidi@firstcolumn@status@write%
26285           \box\@leftcolumn \hss}%
26286         \hfil
26287         {\normalcolor\vrule \@width\columnseprule}%
26288         \hfil
26289         \hb@xt@\columnwidth{%
26290           \bidi@lastcolumn@status@write%
26291           \box\@outputbox \hss}}}%
26292     \@combinedblfloats
26293     \setmarks
26294     \@outputpage
26295     \begingroup
26296       \dblfloatplacement
26297       \startdblcolumn
26298       \@whilesw\if@fcolmade \fi{\@outputpage

```



```

26299 \startdblcolumn}%
26300 \endgroup
26301 \fi}%
26302
26303
26304 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
26305 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
26306 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
26307
26308 \bidi@patchcmd\@makecol{%
26309 \ifvoid\footins
26310 \setbox\@outputbox \box\@cclv
26311 \else
26312 \setbox\@outputbox \vbox {%
26313 \boxmaxdepth \@maxdepth
26314 \unvbox \@cclv
26315 \vskip \skip\footins
26316 \color@begingroup
26317 \normalcolor
26318 \footnoterule
26319 \unvbox \footins
26320 \color@endgroup
26321 }%
26322 \fi
26323 }{%
26324 \ifvoid\footins
26325 \ifvoid\@bidi@copyins@
26326 \setbox\@outputbox \box\@cclv
26327 \else
26328 \setbox\@outputbox \vbox {%
26329 \boxmaxdepth \@maxdepth
26330 \unvbox \@cclv
26331 \vskip \skip\@bidi@copyins@
26332 \color@begingroup
26333 \normalcolor
26334 \unvbox \@bidi@copyins@
26335 \color@endgroup
26336 }%
26337 \fi
26338 \else
26339 \setbox\@outputbox \vbox {%
26340 \boxmaxdepth \@maxdepth
26341 \unvbox \@cclv
26342 \vskip \skip\footins
26343 \color@begingroup
26344 \normalcolor
26345 \footnoterule
26346 \unvbox \footins
26347 \color@endgroup
26348 \ifvoid\@bidi@copyins@
26349 \else
26350 \vskip \skip\@bidi@copyins@
26351 \color@begingroup
26352 \normalcolor

```



```

26353         \unvbox \@bidi@copyins@
26354         \color@endgroup
26355     \fi
26356 }%
26357 \fi
26358 }{}{}
26359
26360 \def\LTRmarginpar{%
26361     \ifhmode
26362         \@bsphack
26363         \@floatpenalty -\@Mii
26364     \else
26365         \@floatpenalty -\@Miii
26366     \fi
26367     \ifinner
26368         \@parmoderr
26369         \@floatpenalty\z@
26370     \else
26371         \@next\@currbox\@freelist{}{}%
26372         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26373         {\@floatpenalty\z@
26374         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
26375     \fi
26376     \ifnextchar [\@LTRxmpar\@LTRympar}
26377 \long\def\@LTRxmpar[#1]#2{%
26378     \@LTRsavemarbox\@marbox{#1}%
26379     \@LTRsavemarbox\@currbox{#2}%
26380     \@xympar}
26381 \long\def\@LTRympar#1{%
26382     \@LTRsavemarbox\@marbox{#1}%
26383     \global\setbox\@currbox\copy\@marbox
26384     \@xympar}
26385 \long\def \@LTRsavemarbox #1#2{%
26386     \global\setbox #1%
26387         \color@vbox
26388         \vtop{%
26389             \hsize\marginparwidth
26390             \@parboxrestore
26391             \LTRmarginparreset
26392             #2%
26393             \@minipagefalse
26394             \outer@nobreak
26395         }%
26396     \color@endbox
26397 }
26398 \def \LTRmarginparreset {%
26399     \reset@font
26400     \normalsize
26401     \@minipagetrue
26402     \everypar{\@minipagefalse\everypar{}\beginL}%
26403 }
26404 \def\RTLmarginpar{%
26405     \ifhmode
26406         \@bsphack

```



```

26407 \floatpenalty -\@Mii
26408 \else
26409 \floatpenalty-\@Miii
26410 \fi
26411 \ifinner
26412 \@parmoderr
26413 \floatpenalty\z@
26414 \else
26415 \@next\@currbox\@freelist{}\{}%
26416 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26417 {\floatpenalty\z@
26418 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
26419 \fi
26420 \ifnextchar [\@RTLxmpar\@RTLympar}
26421 \long\def\@RTLxmpar[#1]#2{%
26422 \@RTLSavemarbox\@marbox{#1}%
26423 \@RTLSavemarbox\@currbox{#2}%
26424 \@xympar}
26425 \long\def\@RTLympar#1{%
26426 \@RTLSavemarbox\@marbox{#1}%
26427 \global\setbox\@currbox\copy\@marbox
26428 \@xympar}
26429 \long\def \@RTLSavemarbox #1#2{%
26430 \global\setbox #1%
26431 \color@vbox
26432 \vtop{%
26433 \hsize\marginparwidth
26434 \@parboxrestore
26435 \@RTLmarginparreset
26436 #2%
26437 \@minipagefalse
26438 \outer@nobreak
26439 }%
26440 \color@endbox
26441 }
26442 \def \@RTLmarginparreset {%
26443 \reset@font
26444 \normalsize
26445 \@minipagetrue
26446 \everypar{\@minipagefalse\everypar{}\beginR}%
26447 }
26448 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
26449 \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
26450 \if@twocolumn
26451 \if@firstcolumn \@tempcnta\m@ne \fi
26452 \else
26453 \if@mparswitch
26454 \ifodd\c@page \else\@tempcnta\m@ne \fi
26455 \fi
26456 \if@reversemargin \@tempcnta -\@tempcnta \fi
26457 \fi
26458 \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
26459 \@tempdima\@mparbottom
26460 \advance\@tempdima -\@pageht

```





```

26461 \advance\@tempdima\ht\@marbox
26462 \ifdim\@tempdima >\z@
26463 \latex@warning@no@line {Marginpar on page \thepage\space moved}%
26464 \else
26465 \@tempdima\z@
26466 \fi
26467 \global\@mparbottom\@pageht
26468 \global\advance\@mparbottom\@tempdima
26469 \global\advance\@mparbottom\dp\@marbox
26470 \global\advance\@mparbottom\marginparpush
26471 \advance\@tempdima -\ht\@marbox
26472 \global\setbox \@marbox
26473 \vbox {\vskip \@tempdima
26474 \box \@marbox}%
26475 \global \ht\@marbox \z@
26476 \global \dp\@marbox \z@
26477 \kern -\@pagedp
26478 \nointerlineskip
26479 \hb@xt@\columnwidth
26480 {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL
26481 \hskip\columnwidth \hskip\marginparsep
26482 \else
26483 \hskip -\marginparsep \hskip -\marginparwidth
26484 \fi
26485 \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR
26486 \nointerlineskip
26487 \hbox{\vrule \height\z@ \width\z@ \depth\@pagedp}}
26488 \long\def\@ympar#1{%
26489 \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar
26490 \global\setbox\@currbox\copy\@marbox
26491 \@xympar}
26492 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
26493 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
26494 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
26495 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
26496 \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
26497 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
26498 \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
26499 \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
26500 \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
26501 \fi}
26502
26503 \newcommand*{\bidi@font@outputpage}{\}
26504
26505 \def\@outputpage{%
26506 \begingroup % the \endgroup is put in by \aftergroup
26507 \let \protect \noexpand
26508 \@resetactivechars
26509 \global\let\@if@newlist\if@newlist
26510 \global\@newlistfalse
26511 \@parboxrestore
26512 \global\let\bidi@BeforeOutputPageShipOut\@firstofone
26513 \bidi@beforeoutputpageshipouthook
26514 \shipout \vbox{%

```



```

26515 \set@typeset@protect
26516 \aftergroup \endgroup
26517 \aftergroup \set@typeset@protect
26518 % correct? or just restore by ending
26519 % the group?
26520 \if@specialpage
26521 \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
26522 \fi
26523 \if@twoside
26524 \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
26525 \ifRTLmain
26526 \let\@themargin\evensidemargin
26527 \else
26528 \let\@themargin\oddsidemargin
26529 \fi
26530 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
26531 \ifRTLmain
26532 \let\@themargin\oddsidemargin
26533 \else
26534 \let\@themargin\evensidemargin
26535 \fi
26536 \fi
26537 \ifx\@thehead\@empty \let\@thehead\hfil \fi
26538 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
26539 \else %% not @twoside
26540 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
26541 \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
26542 \fi
26543 \reset@font
26544 \normalsize
26545 \bidi@font@@outputpage
26546 \normalsfcodes
26547 \let\label\@gobble
26548 \let\index\@gobble
26549 \let\glossary\@gobble
26550 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
26551 \@begindvi
26552 \vskip \topmargin
26553 \moveright\@themargin \vbox {%
26554 \global\let\bidi@BeforeHeader\@firstofone
26555 \bidi@beforeheaderhook
26556 \setbox\@tempboxa \vbox to\headheight{%
26557 \vfil
26558 \color@hbox
26559 \normalcolor
26560 \hb@xt@\textwidth{\ifRTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if
26561 \color@endbox
26562 }% %% 22 Feb 87
26563 \dp\@tempboxa \z@
26564 \box\@tempboxa
26565 \vskip \headsep
26566 \global\let\bidi@BeforeOutputBoxOutputPage\@firstofone
26567 \bidi@beforeoutputboxoutputpagehook
26568 \box\@outputbox

```



```

26569 \global\let\bid@AfterOutputBoxOutputPage\@firstofone
26570 \bid@afteroutputboxoutputpagehook
26571 \global\let\bid@BeforeFooter\@firstofone
26572 \bid@beforefooterhook
26573 \baselineskip \footskip
26574 \color@hbox
26575 \normalcolor
26576 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@RTL
26577 \color@endbox
26578 \global\let\bid@AfterFooter\@firstofone
26579 \bid@afterfooterhook
26580 }%
26581 }%
26582 \global\let\bid@AfterOutputPageShipOut\@firstofone
26583 \bid@afteroutputpageshipouthook
26584 \global\let\if@newlist\@if@newlist
26585 \global \colht \textheight
26586 \stepcounter{page}%
26587 \let\firstmark\botmark
26588 \global\let\bid@AtEndOutputPage\@firstofone
26589 \bid@atendoutputpagehook
26590 }
26591 \long\def\@makecaption#1#2{%
26592 \vskip\abovecaptionskip
26593 \sbox\@tempboxa{#1: #2}%
26594 \ifdim \wd\@tempboxa >\hsize
26595 \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
26596 \else
26597 \global \@minipagefalse
26598 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
26599 \fi
26600 \vskip\belowcaptionskip}
26601 \let\bid@saved@eqno=\eqno
26602 \let\bid@saved@leqno=\leqno
26603 \def\eqno{\ifnum\predisplaydirection<\z@ \bid@saved@leqno \else \bid@saved@eqno \fi}
26604 \def\leqno{\ifnum\predisplaydirection<\z@ \bid@saved@eqno \else \bid@saved@leqno \fi}
26605 \ApplyPatchIfPackageLoadedF{amsmath}{
26606 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
26607 }
26608 \input{footnote-xetex-bidi.def}
26609 \if@twocolumn
26610 \let\autofooterule\relax
26611 \let\leftfootnoterule\relax
26612 \let\rightfootnoterule\relax
26613 \textwidthfootnoterule
26614 \fi
26615 \if@bid@csundef{\idxitem}{}{%
26616 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p}%
26617 }
26618
26619 \ApplyPatchToClassesIfPackageLoadedF{%
26620 book, %
26621 report %
26622 }{flowfram}

```



```

26623
26624 \ApplyPatchToPackageIfPackageLoadedF{float}{floatrow}
26625
26626 \ApplyPatchToFilesIfPackageLoadedF{amsmath}{%
26627   fleqn, %
26628   leqno%
26629 }[clo]
26630
26631 \ApplyPatchToClasses{%
26632   amsart, %
26633   amsbook, %
26634   article, %
26635   artikel1, %
26636   artikel2, %
26637   artikel3, %
26638   beamer, %
26639   boek, %
26640   boek3, %
26641   bookest, %
26642   combine, %
26643   extbook, %
26644   extletter, %
26645   extarticle, %
26646   extreport, %
26647   imspoc, %
26648   letter, %
26649   memoir, %
26650   rapport1, %
26651   rapport3, %
26652   refrep, %
26653   scrartcl, %
26654   scrbook, %
26655   screprt %
26656 }
26657
26658 \ApplyPatchToPackages{%
26659   adjmulticol, %
26660   algorithm2e, %
26661   amsmath, %
26662   amstext, %
26663   amsthm, %
26664   arydshln, %
26665   array, %
26666   beamerbaseauxtemplates, %
26667   beamerbaseboxes, %
26668   beamerbasecolor, %
26669   beamerbasecompatibility, %
26670   beamerbaseframecomponents, %
26671   beamerbaseframesize, %
26672   beamerbaselocalstructure, %
26673   beamerbasemisc, %
26674   beamerbasenavigation, %
26675   beamerbaseoverlay, %
26676   beamerinnerthemecircles, %

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26677 beamerinnerthemedefault, %
26678 beamerinnerthemefocus, %
26679 beamerinnerthemeinmargin, %
26680 beamerinnerthememetropolis, %
26681 beamerinnerthemerectangles, %
26682 beamerinnerthemrounded, %
26683 beamerouterthemedefault, %
26684 beamerouterthemefocus, %
26685 beamerouterthemeinfolines, %
26686 beamerouterthememetropolis, %
26687 beamerouterthememiniframes, %
26688 beamerouterthemesidebar, %
26689 beamerouterthemesplit, %
26690 beamerouterthemeshadow, %
26691 beamerouterthemessmoothbars, %
26692 beamerouterthemessmoothtree, %
26693 beamerouterthemetree, %
26694 beamerthemeHannover, %
26695 beamerthemeSingapore, %
26696 breqn, %
26697 cals, %
26698 caption, %
26699 caption3, %
26700 color, %
26701 colortbl, %
26702 crop, %
26703 cuted, %
26704 cutwin, %
26705 dblfnote, %
26706 diagbox, %
26707 draftwatermark, %
26708 eso-pic, %
26709 empheq, %
26710 fancybox, %
26711 fancyhdr, %
26712 fix2col, %
26713 float, %
26714 floatrow, %
26715 flowfram, %
26716 fnpct, %
26717 footnotebackref, %
26718 framed, %
26719 ftnright, %
26720 geometry, %
26721 graphicx, %
26722 hvfloat, %
26723 hyperref, %
26724 lettrine, %
26725 lineno, %
26726 listings, %
26727 longtable, %
26728 lscape, %
26729 mathtools, %
26730 mdframed, %

```



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26731 media9, %
26732 midfloat, %
26733 minitoc, %
26734 multicol, %
26735 multienum, %
26736 natbib, %
26737 newfloat, %
26738 nicematrix, %
26739 ntheorem, %
26740 ntheorem-hyper, %
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26742 pdfbase, %
26743 pdfscape, %
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26749 sidecap, %
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26751 stabular, %
26752 subfigure, %
26753 tabs, %
26754 tabularx, %
26755 tabulary, %
26756 tcolorbox, %
26757 thmbox, %
26758 titlesec, %
26759 titletoc, %
26760 tocbasic, %
26761 tocbibind, %
26762 tocloft, %
26763 toctstyle, %
26764 todonotes, %
26765 wrapfig, %
26766 xcolor, %
26767 xltextra %
26768 }
26769
26770 \ApplyPatchToFiles{%
26771   pgfcorescopes.code, %
26772   pstricks %
26773 }[tex]
26774
26775 \ApplyPatchToFile{tc-xetex}
26776

```

## 164 File xltextra-xetex-bidi.def

```

26777 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package f
26778 \let\@XeTeX\XeTeX
26779 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
26780 \let\@XeLaTeX\XeLaTeX
26781 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

```



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